

STANDARDS DEVELOPMENT BRANCH OMOE
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ONTARIO WATER RESOURCES COMMISSION

WATER QUALITY DATA

COMPILED BY

RIVER BASIN SURVEYS
WATER QUALITY SURVEYS BRANCH
DIVISION OF SANITARY ENGINEERING

TD
380
.058
W38
1965
MOE

1964 - 65
VOLUME I

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1965, volume 1

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65 - 66
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VOLUME II.

135 ST. CLAIR AVE. W.,
~~880 Bay Street,~~
~~Toronto 5, Ontario.~~
TORONTO 7. ONTARIO

1/14

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INTRODUCTION

The data presented in this publication is part of a program which is designed to provide a near continuous record of basic water quality information at specific points on rivers and lakes in Ontario. This data is being made available to all those who need such information in their work and are directly concerned with the quality of surface water in Southern Ontario. The water quality monitoring program includes routine collection of water samples at specific locations from key rivers and lakes and analysis for various constituents which are primarily of concern from a water use point of view.

Sampling stations were selected at points considered reasonably representative of the general condition of the body of water. As it is of great importance to relate quality data with flow conditions, the sampling stations were located, where practicable, in the vicinity of recording gauging stations maintained by the Department of Northern Affairs and National Resources. In addition, a program was initiated for the installation of staff gauges near sampling stations where no recording gauging stations exist. At the end of the 1965 water year, nine staff gauges had been installed by the Division of Water Resources.

Analysis of samples included some or all of the following parameters: Total coliforms, biochemical oxygen demand, solids (total, suspended, and dissolved), turbidity phosphorus (total and soluble), nitrogen (free ammonia, total Kjeldahl, nitrite, and nitrate), chlorides,

hardness, alkalinity, pH, iron, phenol, dissolved oxygen, alkyl benzene sulfonate, and conductivity.

The water quality monitoring program was started in July 1964 with 89 streams. By the end of the 1964-65 water year (September 30th, 1965), the program was expanded to include a total of 156 rivers and 210 sampling stations.

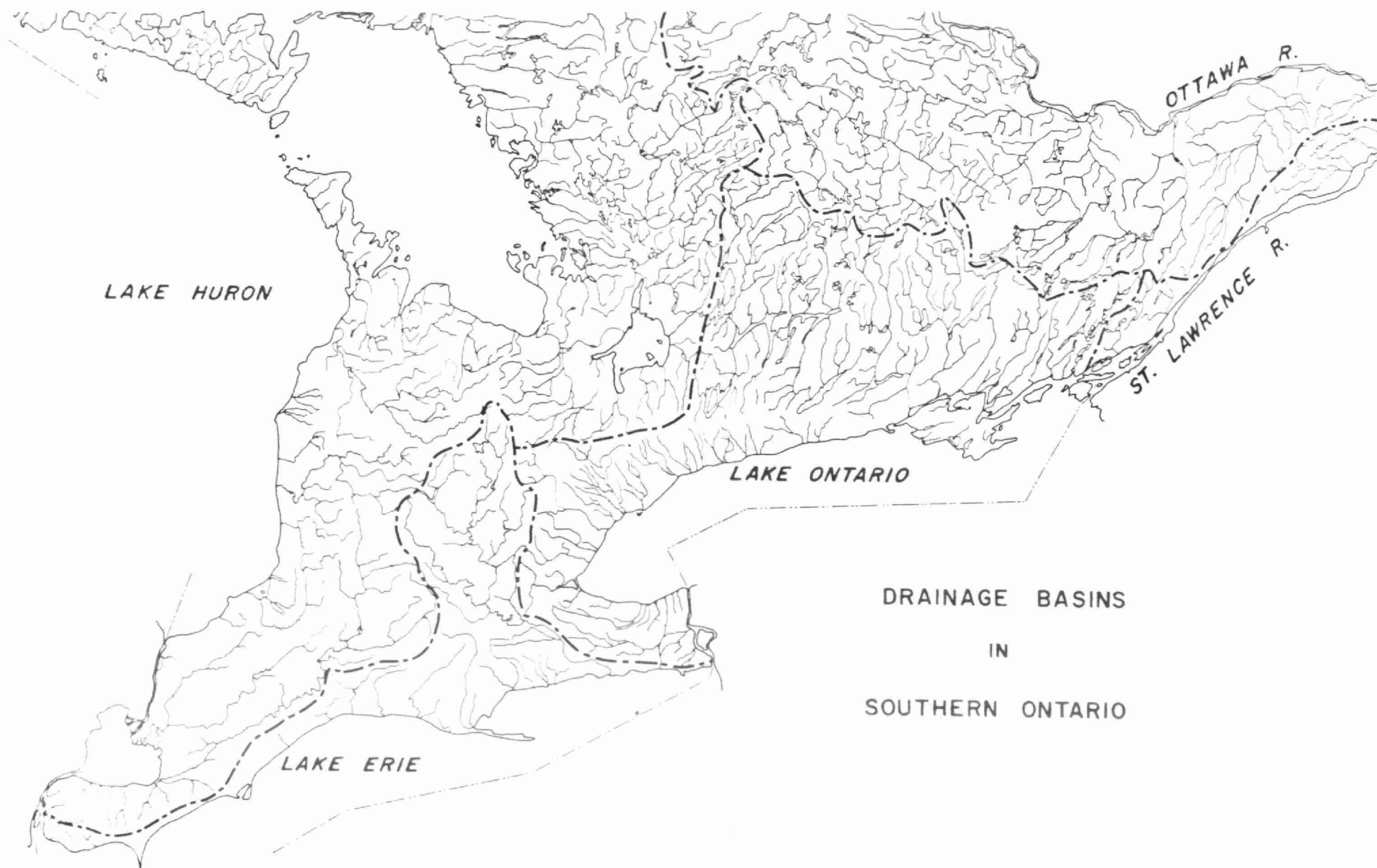
The Commission initiated co-operative water quality studies with the Conservation Authorities in Ontario.

The following Conservation Authorities participated in the collection of water samples in 1964-65 water year:

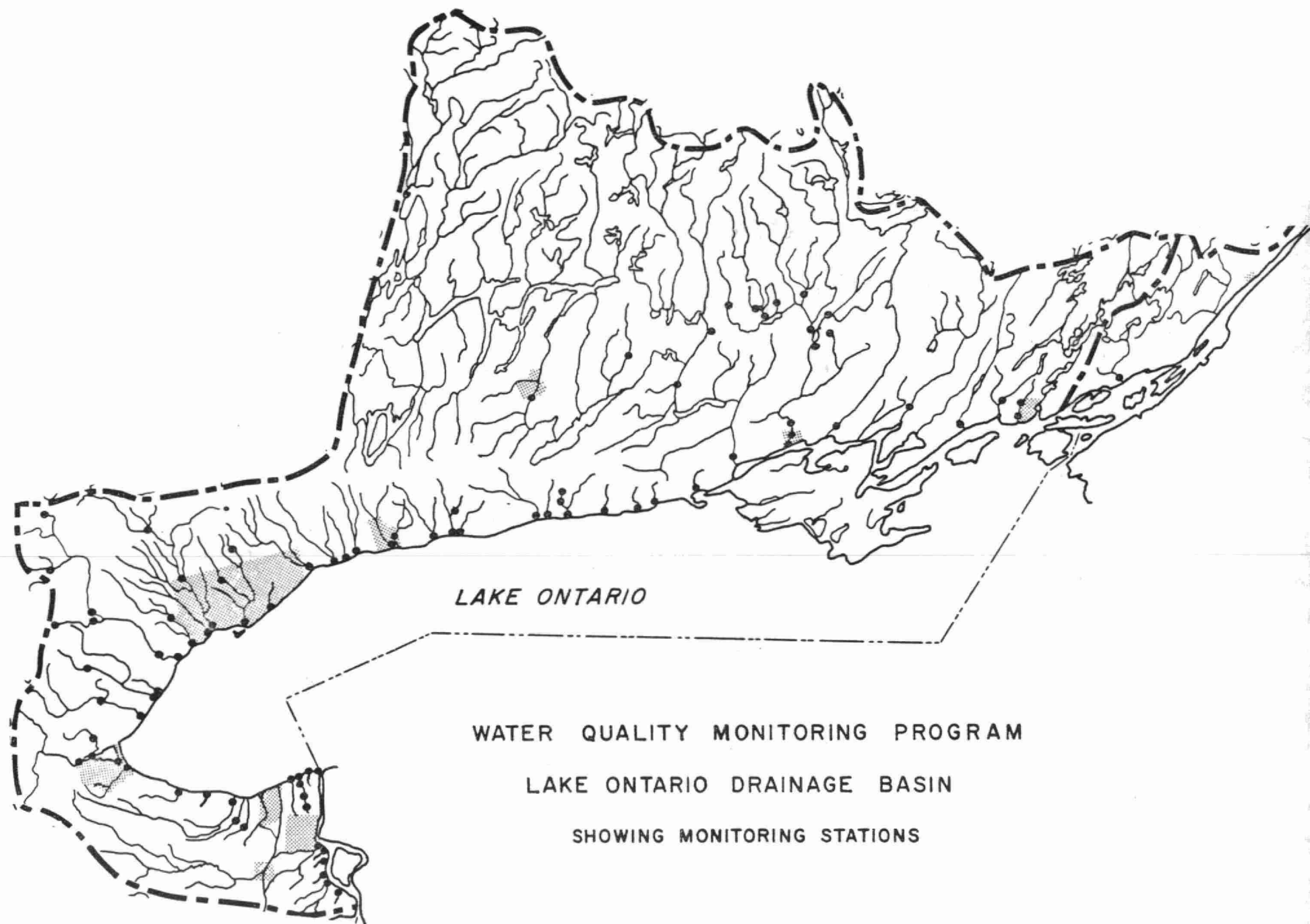
Credit Valley Conservation Authority
Halton Region Conservation Authority
Maitland Valley Conservation Authority
Moir River Conservation Authority
Spencer Creek Conservation Authority

The drainage basins in Southern and Eastern Ontario contributing to the Great Lakes and the St. Lawrence River are shown in the figures following this introduction.

This initial publication of water quality data covers heavy water use areas in the Southern and Eastern parts of the Province. Subsequent annual publications will include quality data on streams in the Northern parts of the province.



DRAINAGE BASINS
IN
SOUTHERN ONTARIO

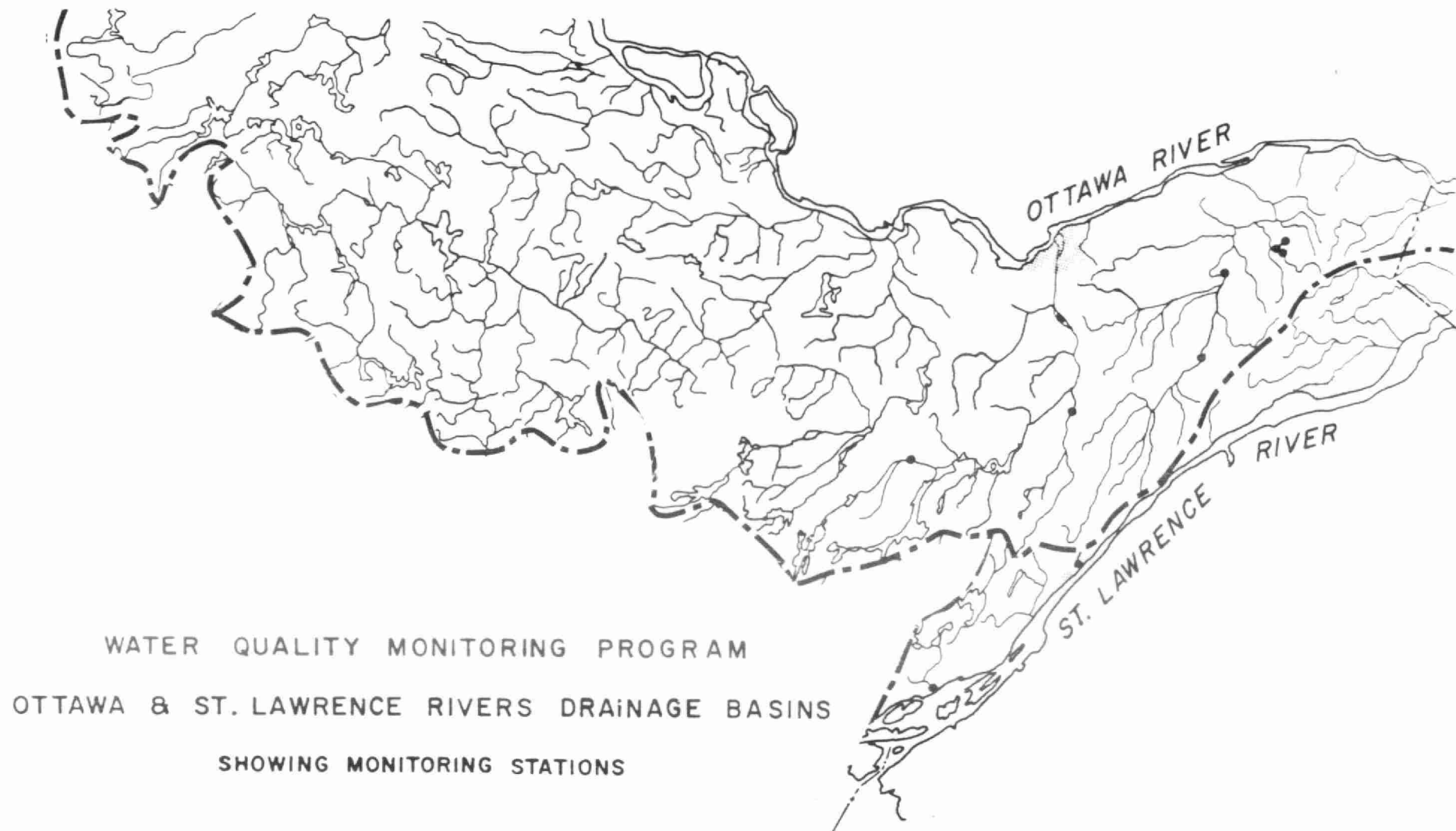


LAKE ONTARIO

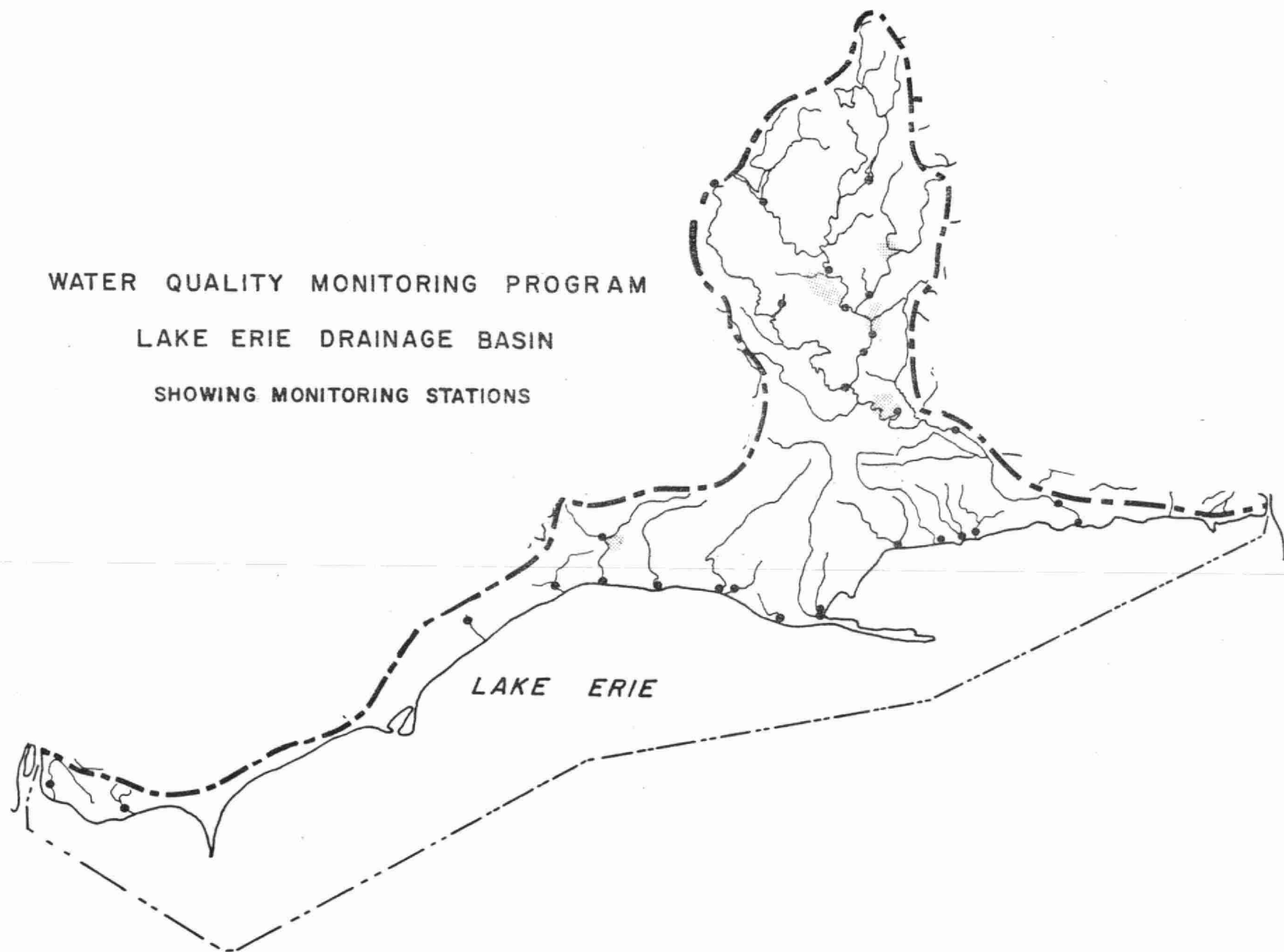
WATER QUALITY MONITORING PROGRAM

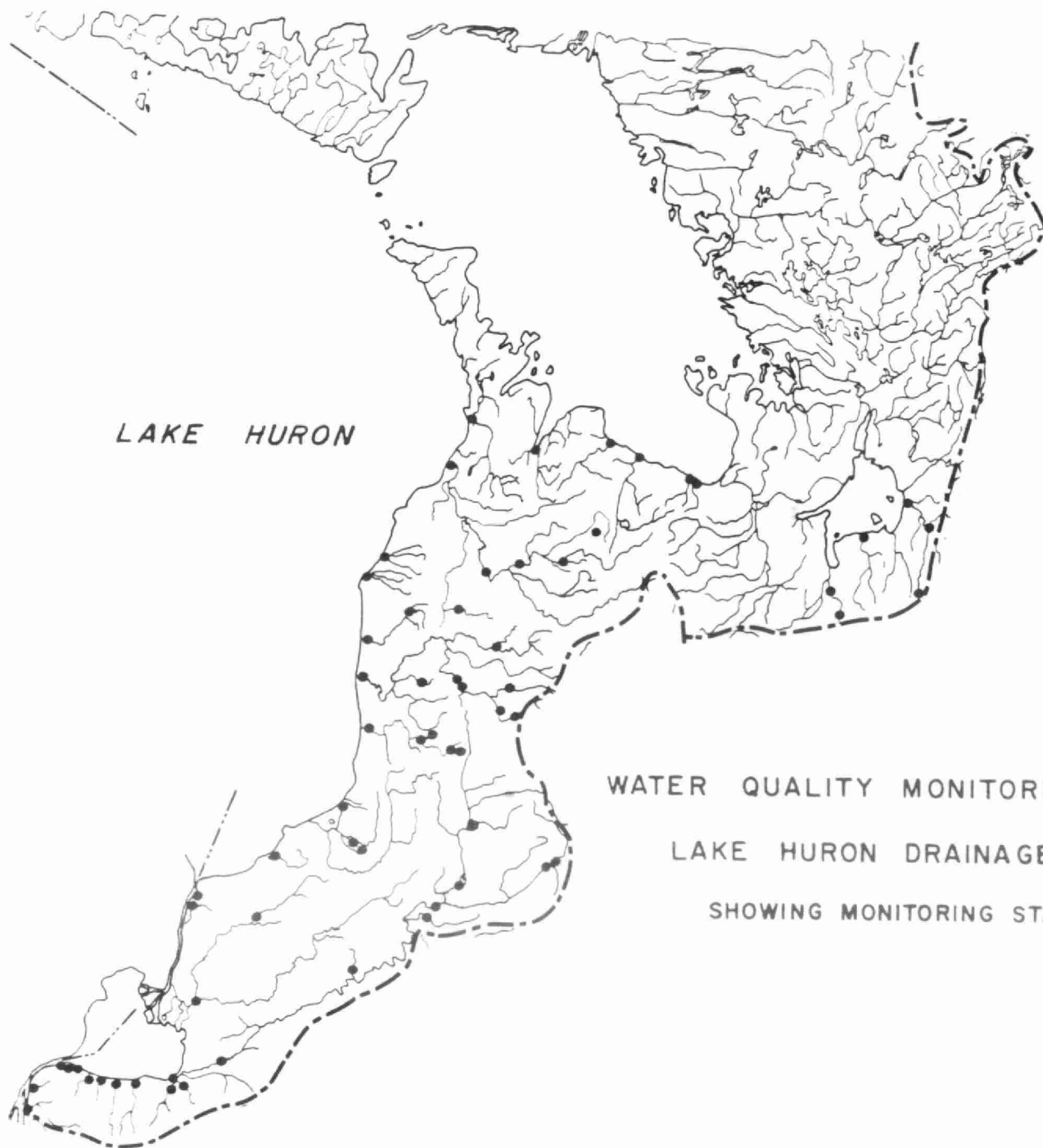
LAKE ONTARIO DRAINAGE BASIN

SHOWING MONITORING STATIONS



WATER QUALITY MONITORING PROGRAM
LAKE ERIE DRAINAGE BASIN
SHOWING MONITORING STATIONS





LAKE HURON

WATER QUALITY MONITORING PROGRAM

LAKE HURON DRAINAGE BASIN

SHOWING MONITORING STATIONS

SAMPLE COLLECTION AND FLOW DATA

The water samples are collected by means of a waste-water sampler which is constructed to permit simultaneous collection of samples for the determination of coliform organisms and chemical content. For dissolved oxygen determinations a separate sample was collected at each station.

Sampling was usually done from a bridge or where necessary, from a bank by immersing the sampler to a depth of about one foot into the main flow of the stream.

The samples obtained at each station were collected at the same location and as nearly as possible, in the same part of the flow. In order to minimize changes caused by differences in sampling techniques, most of the bacterial samples were preserved with ice during the summer months and shipped promptly to the Ontario Water Resources Commission Laboratories in Toronto for examination.

The temperature and dissolved oxygen of the samples were determined in the field and a record was also made of existing weather conditions at the time of sampling.

The streamflow data shown in conjunction with the analytical data are provisional data provided by the Department of Northern Affairs and National Resources. A detailed description of gauging stations may be found in Surface Water Supply of Canada, St. Lawrence and Southern Hudson Bay Drainage Water Year 1964-65 issued under the Authority of the Minister of Northern Affairs and National Resources, Ottawa.

It should be noted that in a number of instances the flow gauging stations were not located close to the sampling stations but at some other point on the river. In these instances the data for the nearest gauging station are given.

INTERPRETATION OF DATA

All of the laboratory tests included in the report were performed at the Ontario Water Resources Commission Laboratories.

(a) Bacteriological Examination:

The Membrane Filter technique was used to obtain a direct enumeration of coliform organisms. These organisms are normal inhabitants of the intestines of man and other warm-blooded animals. They are always present in large numbers in sewage, but generally minimal in other stream pollutants.

The results of the examinations are reported as "MF Coliform count per 100 ml". The objective is that the total coliform count in water should not exceed 2,400 organisms per 100 ml.

(b) Chemical Analysis:

The chemical analyses performed on stream samples include determinations for biochemical oxygen demand, solids (total, suspended, and dissolved), turbidity, phosphorus (total and soluble), nitrogen (free ammonia, total Kjeldahl, nitrite, and nitrate), chlorides, hardness, alkalinity, pH, iron, phenol, dissolved oxygen, alkyl benzene sulfonate, and conductivity.

Biochemical Oxygen Demand, 5-day:

Biochemical oxygen demand is reported in parts per million and is an indication of the amount of oxygen required for the stabilization of decomposable organic matter present in sewage or polluted water. The completion of the laboratory test requires five

days under the controlled incubation temperature of 20°C. The Commission objective for stream quality is an upper limit of 4 ppm.

Solids:

The laboratory tests determine the total and suspended solids in a sample. The value for dissolved solids is determined by taking the mathematical difference between the total and suspended solids.

The concentration of suspended solids, expressed in ppm, is generally the most significant of the solids analyses in regard to water quality. The effects of suspended solids in water are reflected in difficulties associated with water purification, deposition in streams, and injury to the habitat of fish.

Turbidity:

Turbidity is due to fine material in suspension which may not be of sufficient size to be seen as individual particles by the naked eye, but which reduces the passage of light through the liquid. High turbidity is undesirable in natural waters, particularly those which are used for recreational purposes. It is an expression of the optical property of a sample and results are reported in silica units.

Phosphorus:

Phosphorus is an essential nutrient for algae and weed growths. It is generally considered to be the limiting element in the development of such nuisance blooms or growths. Nitrogen is also very important as a

INTERPRETATION OF DATA (CON'T)

nutrient but some forms of algae can take nitrogen directly from the air while phosphorus can be obtained only from the water.

Nitrogen:

Free Ammonia:

Free ammonia is the soluble product in the decomposition of nitrogenous organic matter. It is also formed when nitrites and nitrates are reduced to ammonia either biologically or chemically. Small amounts of ammonia, too, may be taken out of the atmosphere by rain water. The following values may be of general significance in appraising free ammonia content: Low 0.015 - 0.03 ppm: Moderate - 0.03-0.10 ppm: High - 0.10 ppm or greater.

Total Kjeldahl:

Total Kjeldahl is a measure of the total nitrogenous matter present except that measured as nitrite and nitrate. The total Kjeldahl, less the ammonia nitrogen gives a measure of the organic nitrogen present. Ammonia and organic nitrogen determinations are important in assessing the availability of nitrogen for biological utilization. The normal range for total Kjeldahl would be 0.1 - 0.5 ppm.

Nitrite:

Nitrite is usually an intermediate oxidation product of ammonia. The significance of nitrites, therefore, varies with their amount, source and relation to other

constituents of the samples, notably the relative magnitude of ammonia and nitrate present. Since nitrite is rapidly and easily converted to nitrate, its presence in concentrations greater than a few thousands of a part per million is generally indicative of active biological processes in the water.

Nitrate:

Nitrate is the end product of aerobic decomposition of nitrogenous matter, and its presence carries this significance. Nitrate concentration is of particular interest in relation to the other forms of nitrogen that may be present in the sample. Nitrates occur in the crust of the earth in many places, and are a source of its fertility. The following ranges in concentration may be used as a guide: Low - less than 0.1 ppm: Moderate - 0.1 - 1.0 ppm: High - greater than 1.0 ppm.

Chlorides:

Chlorides are universally present in sewage and many industrial wastes and naturally in most waters. In large amounts they may give a salty taste to drinking water. The OWRC 1964 drinking water objectives recommend that chloride be limited to 250 ppm in supplies intended for public use.

Hardness:

The hardness of water reflects the nature of the geological formations with which it has been in contact.

INTERPRETATION OF DATA (CON'T)

No specific limit is placed on hardness although it is usually recommended that water for domestic use should contain less than 250 ppm hardness as CaCO_3 . This objective has been used to avoid excessive soap consumption.

The degrees of hardness are indicated as:

Soft	0 - 60 ppm
Moderately hard	61 - 120 ppm
Hard	121 - 180 ppm
Very Hard	Greater than 180 ppm.

Alkalinity:

The alkalinity of natural waters is caused by three major classes of materials which may be ranked in order of their effect on pH as follows: (1) Hydroxides (2) Carbonates (3) Bicarbonates and other salts of weak acids. The alkalinity of a water has little sanitary significance but is of importance in water, sewage and industrial waste treatment practices.

pH:

The symbol pH is used to designate the logarithm (base 10) of the reciprocal of the hydrogen-ion-concentration. It is an index of the acidity or alkalinity of the solution. The practical pH extends from 0, very acid, to 14, very alkaline, with the middle value of pH 7 corresponding to exact neutrality (at 25°C). The objectives for surface-water quality as adopted by the

OWRC suggest that the pH of the waters should not be less than 6.7 nor greater than 8.5

Iron:

The recommended maximum limit for iron in water supplies is 0.3 ppm. It is noted that waters with concentrations of iron in excess of 0.3 are not harmful to consumers but have sediment-forming properties, and may cause the deposition of iron in pipes or the growth of iron bacteria which may result in taste and odour problems if the concentration exceeds 1 ppm.

Phenols:

The phenolic compounds, collectively referred to as phenols are those hydroxy derivatives of benzene or its condensed nuclei, which are determined by the Gibbs method with modifications. The results are reported in parts per billion. Phenols are present in waste flows from many industrial processes. Dependent on the concentration, the presence of these materials may be toxic to fish, or may taint the flesh of fish. Phenols in very minute concentrations will combine with chlorine to produce intense tastes and odours which are variously described as medicinal, chemical and iodoform.

Dissolved Oxygen:

Dissolved Oxygen is derived from the air directly, and from oxygen released through the photosynthetic

INTERPRETATION OF DATA (CON'T)

process of aquatic plants. Ample dissolved oxygen is vitally necessary to maintain a satisfactory fishery and stream biota, and to avoid nuisance conditions from the decomposition of sewage or wastes. A minimum concentration of 4.0 ppm is recommended.

2736

Alkyl Benzene Sulfonate (ABS):

The portion of anionic detergents is reported in ppm. The test is generally employed to indicate the presence of illegal discharges of wastewater. The popular use of synthetic detergents for general cleaning purposes has resulted in the incidence of residual ABS in streams. As an objective, the ABS concentration should not exceed 0.5 ppm in water used for domestic purposes.

Conductivity:

The conductivity test provides a measure of the electrolytic properties of water. Biochemically treated water in a liquid form has a very low electrical conductance. The presence of dissolved ions in solutions such as chlorides, sulphates, and calcium, renders the water conductive. In many waters there is a direct linear relationship between dissolved solids concentrations and conductivity. Conductivity serves as a control parameter and is an excellent indicator of water quality changes since it is relatively sensitive to variations in dissolved solids concentrations. Conductance is the reciprocal of resistance and is recorded in the unit mho. Natural waters have specific conductance values which are less than one mho, and in order to avoid inconvenient decimals, data are reported in millionth mhos or micromhos.

- IV -

ABBREVIATIONS AND SYMBOLS

2, * &	and	* pH	hydrogen ion concentration
✓ Ave.	avenue	* ppb	part or parts per billion
✓ Blvd.	boulevard	* ppm	part or parts per million
BOD	biochemical oxygen demand	* Pt.	port
* CaCO ₃	calcium carbonate	* QEW	Queen Elizabeth Way
✓ cfs	cubic foot or feet per second	* R	river
✓ CNR	Canadian National Railway	* Rd.	road
✓ CPR	Canadian Pacific Railway	* RR	railroad
✓ Co.	county	* S	south
✓ Conc.	concession	* St.	street or saint
°C	degree or degrees Centigrade	* STP	sewage treatment plant
* Dr.	drive	* Tr.	trace
✓ E	east	* Twp.	township
✓ Hwy.	highway	* W	west
✓ Jct.	junction	* WPCP	water pollution control plant
✓ L	lake	Yds.	yards
✓ μmhos/cm ³	micromhos per centimeter cube	>	greater than
* MF	Membrane Filter	<	less than
✓ ml	milliliter or milliliters	#	number
✓ No.	number	* 5.23.65	month-day-year
✓ OWRG	Ontario Water Resources Commission		

LOCATION OF WATER SAMPLING STATIONS

	<u>Station</u>	<u>Page</u>
<u>AUSABLE RIVER BASIN</u>		
Ausable River at River Road, Village of Grand Bend	A-0.1	23
Cameron Drain at Victoria Street, downstream from the Town of Parkhill	APC-14.8	24
Parkhill Creek at Highway No. 81	AP-16.5	25
<u>BAKERS CREEK BASIN</u>		
Bakers Creek at Niagara Blvd., Township of Willoughby	B-0.1	26
<u>BATTEAUX RIVER BASIN</u>		
Batteaux River at Highway No. 26	B-0.2	27
<u>BAYFIELD RIVER BASIN</u>		
Bayfield River at Highway No. 21	B-0.1	28
Bayfield River at Main Street, Town of Seaforth	B-28.8	29
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Liffy Ditch at Matilda Street, Police Village of Dublin	BFL-39.2	31
Liffy Ditch at Highway No. 8	BFL-39.8	32
<u>BEAVER RIVER BASIN</u>		
Beaver River upstream from Georgian Bay	B-0.1	33
<u>BEAVERTON RIVER BASIN</u>		
Beaverton River near mouth at Lake Simcoe	B-0.2	34
Beaverton River at First Side Road west of the Village of Cannington	B-13.5	35
<u>BELLE RIVER BASIN</u>		
Belle River at C.N.R. Bridge, Village of Belle River	B-0.2	36
<u>BIG CREEK BASIN (Essex Co.)</u>		
Big Creek at Highway No. 18	B-3.3	37
<u>BIG CREEK BASIN (Norfolk Co.)</u>		
Big Creek at Highway No. 59	B-0.3	38

LOCATION OF WATER SAMPLING STATIONS

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✓ <u>BIGHEAD RIVER BASIN</u> Bighead River at Trowbridge Street, Town of Meaford	B-0.2	39
✓ <u>BIG OTTER CREEK BASIN</u> Big Otter Creek at bridge, Village of Port Burwell	BO-0.5	40
✓ <u>BLACK CREEK BASIN</u> Black Creek at Niagara Blvd., Township of Willoughby	B-0.1	41
✓ <u>BLACK RIVER BASIN</u> Black River at Mossington Bridge, downstream from the Village of Sutton	B-0.0	42
✓ <u>BOWMANVILLE CREEK BASIN</u> Bowmanville Creek at bridge on west Beach Road, Town of Bowmanville	B-0.6	43
✓ <u>BRONTE CREEK BASIN</u> Bronte Creek at Highway No. 2	B-0.4	44
Bronte Creek at Appleby Line, Town of Burlington	B-9.3	46
✓ <u>BUTLER CREEK BASIN</u> Butler Creek - Road to Highway No.33 (South of Brighton)	B-0.2	47
✓ <u>CANARD RIVER BASIN</u> Canard River at Highway No. 18	C-0.5	48
✓ <u>CARRUTHER'S CREEK BASIN</u> Carruther's Creek Bridge on first Rd. east of the town of Ajax, Township of Pickering	CA-0.5	49

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<u>CATARAQUI RIVER BASIN</u>		
Cataraqui River at Highway No. 2	C-0.5	50
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LOCATION OF WATER SAMPLING STATIONS

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✓ <u>CREDIT RIVER BASIN</u>		
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Credit River at Highway No. 7	C-21.4	63
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✓ <u>DON RIVER BASIN</u>		
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✓ <u>DUFFIN CREEK BASIN</u>		
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✓ <u>EIGHT MILE CREEK BASIN</u>		
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✓ <u>ETOBICOKE CREEK BASIN</u>		
Etobicoke Creek at Highway No. 2	E-0.3	77
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<u>FIFTEEN MILE CREEK BASIN</u>		
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LOCATION OF WATER SAMPLING STATIONS

	<u>Station</u>	<u>Page</u>
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LOCATION OF WATER SAMPLING STATIONS

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LOCATION OF WATER SAMPLING STATIONS

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LOCATION OF WATER SAMPLING STATIONS

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✓ <u>NOTTAWASAGA RIVER BASIN</u> Boyne River at County Road No. 10 downstream from the Town of Alliston	NB-50.4	189
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✓ <u>OSHAWA CREEK BASIN</u> Oshawa Creek at Bridge on Simcoe Street, City of Oshawa	O-0.4	194
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LOCATION OF WATER SAMPLING STATIONS

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LOCATION OF WATER SAMPLING STATIONS

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LOCATION OF WATER SAMPLING STATIONS

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LOCATION OF WATER SAMPLING STATIONS

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LOCATION OF WATER SAMPLING STATIONS

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AUSABLE RIVER

WATER QUALITY MONITORING

STATION: A-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT RIVER RD. VILLAGE OF
GRAND BEND

DATE COLLECTED	10.7.64	12.15.64	1.27.65	2.23.65	3.23.65	6.23.65	7.20.65	8.5.65	9.21.65
TEMPERATURE °C	16.5	0.5	0.2	0.1	0.5	18.0	19.0	21.7	23.0
DISSOLVED OXYGEN	10.4	11.6	11.4	8.8	12.2	12.0	9.6	7.8	7.0
COLIFORMS (MF/100ML)	-	540	8,000	252	170	138	3,900	28,000	3,000
5-DAY BOD	1.3	2.9	2.1	1.7	2.5	3.4	2.0	1.0	0.4
TOTAL SOLIDS	250	438	426	578	366	212	160	258	212
SUSPENDED SOLIDS	-	15	21	-	14	17	55	-	56
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	27	32	10.0	-	11.5	3.6	27.0	21	31.0
PHOSPHORUS (TOTAL)	0.4	-	-	0.18	0.18	0.10	0.30	0.28	0.3
(SOLUBLE)	0.2	-	-	0.10	0.18	0.02	0.12	0.28	0.2
(FREE AMMONIA)	0.0	-	0.2	0.2	0.16	0.10	0.13	0.12	0.10
NITROGENS (TOTAL KJELDAHL)	0.26	-	1.1	2.1	0.78	0.65	0.58	1.4	0.26
(NITRITE)	0.01	-	0.01	TR	TR	TR	TR	0.01	TR
(NITRATE)	TR	-	3.1	8.5	2.8	TR	0.25	-	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	6.0	11.0	21.0	10.0
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CAMERON DRAIN

WATER QUALITY MONITORING

STATION: APC-14.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT VICTORIA ST., DOWNSTREAM
FROM TOWN OF PARKHILL

DATE COLLECTED	12.16.64	1.27.65	2.23.65	3.23.65	6.10.65	6.23.65	7.20.65	8.5.65	9.21.65
TEMPERATURE °C	1.0	1.0	0.2	1.0	-	21.0	15.2	19.3	23.0
DISSOLVED OXYGEN	12.0	13.5	10.8	11.2	-	0.0	0.0	0.0	0.0
COLIFORMS (MF/100ML)	15,800.	34,000.	49,000	61,000	-	760,000	7,200,000	680,000	2,600,000
5-DAY BOD	2.6	4.1	2.6	13	5.6	36	650	92	74
TOTAL SOLIDS	940	372	928	644	1,922	1,796	2,622	1,808	1,972
SUSPENDED SOLIDS	9	21	9	7	41	40	352	31	72
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	9.5	10.5	1.4	2.3	-	39.0	59.0	37.0	39.0
PHOSPHORUS (TOTAL)	0.8	-	-	-	-	5.8	26.0	7.0	9.0
(SOLUBLE)	0.58	-	-	-	-	5.2	13.0	5.0	5.0
(FREE AMMONIA)	0.8	-	-	-	-	6.40	9.0	4.3	6.56
NITROGENS (TOTAL KJELDAHL)	1.5	-	-	-	-	13.0	33.0	15.0	18.0
(NITRITE)	0.08	-	-	-	-	TR	0.0	TR	TR
(NITRATE)	2.8	-	-	-	-	0.0	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	226.0	270.0	216.0	217.0
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
ABS	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	0.4	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-	-	-	-
		AVERAGE	-	MAXIMUM	-	MINIMUM	-		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

PARKHILL CREEK

WATER QUALITY MONITORING

STATION: AP-16.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY. 81

DATE COLLECTED	10.7.64	12.15.64	1.27.65	2.23.65	3.23.65	6.10.65	6.23.65	7.20.65	8.5.65	9.21.65
TEMPERATURE °C	9.0	0.5	0.0	0.1	0.5	-	22.0	18.5	20.8	21.5
DISSOLVED OXYGEN	8.0	12.8	13.5	12.4	12.4	-	9.0	6.8	9.8	8.0
COLIFORMS (MF/100ML)	-	700	830	296	30	-	90	300	200	400
5-DAY BOD	1.3	2.7	2.1	1.7	2.1	2.2	3.6	4.0	2.1	3.4
TOTAL SOLIDS	402	382	330	386	366	520	440	412	406	486
SUSPENDED SOLIDS	-	8	21	10	22	10	24	39	14	20
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	12.5	27	17	5.5	11.5	-	16.0	26.0	11.5	7.5
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	0.16	0.42	0.20	0.24
PHOSPHORUS (SOLUBLE)	-	-	-	-	-	-	-	0.04	0.04	0.08
(FREE AMMONIA)	-	-	-	-	-	-	Tr	0.19	0.06	0.13
(TOTAL KJELDAHL)	-	-	-	-	-	-	1.00	1.1	0.98	0.84
(NITRITE)	-	-	-	-	-	-	Tr	Tr	Tr	Tr
(NITRATE)	-	-	-	-	-	-	0.0	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	12.0	24.0	42.0	70.0
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
ABS	-	-	-	-	-	0.0	-	-	-	-
DAILY FLOW (CFS)	0.4	45.7	14.2	9.0	27.0	0.7	0.6	0.2	0.4	0.2
YEARLY FLOW (CFS)	AVERAGE		313.3	MAXIMUM		635	MINIMUM		0.1	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BAKER'S CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: B-0.1

LOCATION: AT NIAGARA BLVD.
TOWNSHIP OF WILLOUGHBY

DATE COLLECTED	10.29.64	5.19.65	7.7.65	7.27.65	8.25.65
TEMPERATURE °C	11	8.5	21	26	23.5
DISSOLVED OXYGEN	11.6	11.0	10.2	11.0	11
COLIFORMS (MF/100ML)	600	1,900	7,000	390	210
5-DAY BOD	4	0.7	0.7	1.3	2.6
TOTAL SOLIDS	376	200	-	162	218
SUSPENDED SOLIDS	-	2.7	-	5	7
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	56	2.6	5.0	3.1	-
PHOSPHORUS	TOTAL	.80	0.10	0.32	0.32
	SOLUBLE	.30	0.02	-	0.20
NITROGENS	FREE AMMONIA	0.5	0.10	0.05	0.12
	TOTAL KJELDAHL	1.7	0.40	1.0	0.39
	NITRITE	0.01	0.01	TR	0.01
	NITRATE	TR	TR	-	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	26	27	28	30
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BATTEAUX RIVER

WATER QUALITY MONITORING

STATION: 8.0. 2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy. 28

DATE COLLECTED	10.8.64	12.17.64	2.24.65	3.25.65	8.4.65	
TEMPERATURE °C	11.0	0.5	0.2	0.5	-	
DISSOLVED OXYGEN	11.2	13.4	14.0	13.4	-	
COLIFORMS (MF/100ML)	146	750	82	166	68	
5-DAY BOD	1.4	2.5	1.5	2.6	1.5	
TOTAL SOLIDS	246	352	318	340	200	
SUSPENDED SOLIDS	-	10	3	4	44	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	
TURBIDITY (UNITS)	2.6	6.5	-	1.5	4.0	
PHOSPHORUS	(TOTAL	0.10	0.20	0.16	0.28	0.16
	(SOLUBLE	0.06	0.12	0.14	0.24	0.04
NITROGENS	(FREE AMMONIA	0.0	0.5	0.9	0.4	0.05
	(TOTAL KJELDAHL	0.26	0.90	0.2	0.4	0.71
	(NITRITE	0.0	0.01	TR	0.1	0.0
	(NITRATE	0.0	0.5	0.6	0.52	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	-	-	-	-	12.0	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE - MAXIMUM -					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BAYFIELD RIVER

WATER QUALITY MONITORING

STATION: 8-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY. 21

DATE COLLECTED	10.7.64	12.16.64	1.27.65	2.23.65	3.23.65	6.23.65	7.20.65	8.5.65	9.21.65
TEMPERATURE °C	9.0	0.5	0.5	0.1	0.1	22.0	19.0	22.2	24.0
DISSOLVED OXYGEN	12.0	13.6	9.5	13.6	13.6	8.2	6.6	6.4	7.0
COLIFORMS (MF/100ML)	-	1,400	270	36	0	112	900	410	1,700
5-DAY BOD	1.9	2.5	1.4	1.9	3.2	2.0	0.8	0.5	0.7
TOTAL SOLIDS	286	384	344	374	338	300	246	308	224
SUSPENDED SOLIDS	-	8	1	-	10	18	29	14	9
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	6.5	9.0	0.1	-	2.5	4.5	93.0	12.0	4.0
PHOSPHORUS	(TOTAL	0.36	-	-	0.18	0.18	0.42	0.10	0.12
	(SOLUBLE	0.06	-	-	0.14	-	0.06	0.04	0.04
NITROGENS	(FREE AMMONIA	0.0	-	0.1	0.1	0.1	0.06	0.13	0.10
	(TOTAL KJELDAHL	0.2	-	0.3	0.7	0.23	0.65	0.98	0.26
	(NITRITE	0.0	-	Tr	Tr	0.0	Tr	Tr	Tr
	(NITRATE	0.0	-	2.5	2.5	1.5	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	11.0	15.0	19.0	13.0
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BAYFIELD RIVER

WATER QUALITY MONITORING

STATION: B-28.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT MAIN ST. (SEAFORTH)

DATE COLLECTED	10.7.64	12.16.64	1.27.65	2.23.65	3.23.65	6.23.65	7.20.65	8.5.65	9.21.65
TEMPERATURE °C	8.5	0.5	0.25	0.1	1.0	26.0	21.6	22.0	25.0
DISSOLVED OXYGEN	12.8	11.8	10.5	11.6	12.2	19.0	17.4	8.0	12.0
COLIFORMS (MF/100ML)	-	3,600	54,000	9,300	24,000	152	170	500	12,000
5-DAY BOD	4.6	2.4	2.0	2.3	2.8	2.1	2.0	1.9	5.5
TOTAL SOLIDS	402	396	290	360	352	492	632	414	522
SUSPENDED SOLIDS	-	4	2	1	7	6	1	07	11
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	10.5	5.0	1.4	1.3	1.4	1.7	3.1	3.5	4.5
PHOSPHORUS	(TOTAL	-	-	-	-	2.0	1.34	0.88	5.6
	(SOLUBLE	-	-	-	-	-	1.24	0.60	-
NITROGENS	(FREE AMMONIA	-	-	-	-	0.13	.13	0.28	1.50
	(TOTAL KJELDAHL	-	-	-	-	1.10	0.71	0.98	2.30
	(NITRITE	-	-	-	-	0.20	0.02	0.04	0.01
	(NITRATE	-	-	-	-	0.3	0.2	0.88	0.40
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	44	43	27	55
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SILVER CREEK

WATER QUALITY MONITORING

STATION: BS-29.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT CONFLUENCE, BAYFIELD R.

DATE COLLECTED	2.23.65	3.23.65	6.23.65	7.20.65	8.8.65	9.21.65
TEMPERATURE °C	0.1	1.0	24.0	18.5	21.0	21.5
DISSOLVED OXYGEN	13.8	12.2	11.0	13.2	12.4	8.0
COLIFORMS (MF/100ML)	127,000	13,200	95,000	1,000	670	2,500
5-DAY BOD	3.4	4	4.4	6.8	3.2	7.0
TOTAL SOLIDS	466	432	592	528	584	716
SUSPENDED SOLIDS	9	13	7	6	-	132
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	2.0	4.0	1.4	3.5	3.8	13.0
PHOSPHORUS (TOTAL)	-	-	1.72	3.0	-	3.8
(SOLUBLE)	-	-	1.44	2.3	-	2.2
(FREE AMMONIA)	-	-	1.64	2.5	1.5	0.24
NITROGENS (TOTAL KJELDAHL)	-	-	2.80	2.80	2.3	0.65
(NITRITE)	-	-	0.10	0.15	0.05	0.15
(NITRATE)	-	-	0.2	0.8	-	0.50
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	49	59	50	56
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-
		AVERAGE	MAXIMUM		MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

L I F F Y D I T C H

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: BFL-39.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT MATILDA ST., POLICE VILLAGE
 OF DUBLIN

DATE COLLECTED	6.23.65	7.20.65	8.5.65	9.21.65	
TEMPERATURE °C	22.0	18.2	21.	22.0	
DISSOLVED OXYGEN	10.6	16.2	14.2	4.0	
COLIFORMS (MF/100ML)	330,000	1,100	25,000	50,000	
5-DAY BOD	16	4.8	5.0	10	
TOTAL SOLIDS	398	414	348	876	
SUSPENDED SOLIDS	31	15	40	36	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	
TURBIDITY (UNITS)	3.8	12.5	3.6	13.5	
PHOSPHORUS	(TOTAL	11.0	0.90	0.60	8.2
	(SOLUBLE	9.0	0.80	0.08	6.2
NITROGENS	(FREE AMMONIA	6.40	0.19	0.20	8.20
	(TOTAL KJELDAHL	6.10	1.40	0.26	12.0
	(NITRITE	0.10	0.01	TR	0.06
	(NITRATE	0.15	TR	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	
CHLORIDES	53	60	30	179	
IRON	-	-	-	-	
HARDNESS	-	-	-	-	
ALKALINITY	-	-	-	-	
PH	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

LIFFY DITCH

WATER QUALITY MONITORING

STATION: BFL-39.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY. 8

DATE COLLECTED	6.23.85	7.20.85	8.5.85	9.21.85
TEMPERATURE °C	21.0	16.5	21.0	28.0
DISSOLVED OXYGEN	13.6	6.8	6.6	6.0
COLIFORMS (MF/100ML)	99,000	8,500	31,000	69,000
5-DAY BOD	21.0	4.2	4.4	5.8
TOTAL SOLIDS	692	338	378	550
SUSPENDED SOLIDS	45	2	17	14
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-
TURBIDITY (UNITS)	1.8	5.5	7.0	8.0
PHOSPHORUS	(TOTAL 3.4	(TOTAL 1.44	(TOTAL 0.56	(TOTAL 6.0
	(SOLUBLE 2.7	(SOLUBLE 1.20	(SOLUBLE 0.48	(SOLUBLE 5.0
NITROGENS	(FREE AMMONIA 6.70	(FREE AMMONIA 1.5	(FREE AMMONIA 0.13	(FREE AMMONIA 4.60
	(TOTAL KJELDAHL 5.90	(TOTAL KJELDAHL 2.50	(TOTAL KJELDAHL 1.2	(TOTAL KJELDAHL 6.00
	(NITRITE 0.03	(NITRITE 0.03	(NITRITE Tr	(NITRITE 0.05
	(NITRATE 0.0	(NITRATE Tr	(NITRATE 0.0	(NITRATE Tr
PHENOL EQUIVALENTS (PPB)	-	-	-	-
CHLORIDES	170	42	28	140
IRON	-	-	-	-
HARDNESS	-	-	-	-
ALKALINITY	-	-	-	-
PH	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BEAVER

RIVER

WATER QUALITY MONITORING

STATION: B-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: UPSTREAM FROM GEORGIAN BAY

DATE COLLECTED	10.8.64	12.17.64	2.24.65	3.25.65	6.30.65	7.21.65	8.5.65	8.24.65
TEMPERATURE °C	9.0	0.5	0.5	1.0	21.0	19.2	19.8	18.5
DISSOLVED OXYGEN	11.2	13.5	13.0	13.6	10.6	10.8	8.0	9.0
COLIFORMS (MF/100ML)	19,500	12,800	7,300	13,500	40,000	6,100	8,600	10,700
5-DAY BOD	1.6	2.9	1.1	2.2	0.8	0.9	0.7	2.2
TOTAL SOLIDS	232	268	284	280	260	288	292	242
SUSPENDED SOLIDS	-	9	8	8	21	24	14	15
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	7.0	9.5	-	4.0	9.5	2.1	7.0	-
PHOSPHORUS (TOTAL)	0.20	0.22	-	0.14	0.20	0.16	2.0	0.24
(SOLUBLE)	-	0.07	-	0.10	-	0.16	1.6	0.24
(FREE AMMONIA)	0.08	0.1	0.1	0.06	0.02	0.08	0.05	0.12
NITROGENS (TOTAL KJELDAHL)	0.33	0.50	0.20	0.13	0.71	0.58	0.26	0.20
(NITRITE)	Tr	Tr	Tr	0.0	Tr	Tr	Tr	Tr
(NITRATE)	Tr	0.5	0.8	0.72	0.2	0.12	0.36	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	4	5	4	4
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	100	144	221	168	160	133	121	110
YEARLY FLOW (CFS)		AVERAGE	233	MAXIMUM	1,990	MINIMUM	59.8	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BEAVERTON

RIVER

WATER QUALITY MONITORING

STATION: B-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BELOW BEAVERTON

DATE COLLECTED	10.1.64	12.2.64	2.19.65	3.19.65	5.14.65	6.17.65	7.9.65	7.27.65	8.18.65	9.17.65
TEMPERATURE °C	12.0	0.5	1.0	1.5	16.0	-	22.0	21.2	21.0	16.0
DISSOLVED OXYGEN	9.0	13.8	14.2	13.8	13.0	-	11.2	10.8	7.0	9.0
COLIFORMS (MF/100ML)	300	80	830	580	90	3,100	80	138	330	650
5-DAY BOD	2.3	3.2	4.4	6.1	2.3	1.2	3.1	2.6	2.5	0.4
TOTAL SOLIDS	254	-	832	252	258	260	230	244	220	294
SUSPENDED SOLIDS	-	8	560	32	12	14	10	16	7	25
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	8.0	3.8	68.0	-	-	7.0	2.6	9.0	7.5	32.0
PHOSPHORUS (TOTAL)	-	-	2.32	0.53	-	-	0.64	0.44	0.28	0.20
(SOLUBLE)	-	-	0.24	-	-	-	0.36	0.20	0.20	0.08
(FREE AMMONIA)	-	-	0.1	0.58	0.12	0.20	0.24	0.03	0.0	0.12
NITROGENS (TOTAL KJELDAHL)	-	-	2.3	1.65	0.84	1.2	1.05	0.84	0.68	1.0
(NITRITE)	-	-	0.02	0.01	TR	TR	TR	TR	0.0	TR
(NITRATE)	-	-	TR	TR	0.10	0.0	TR	0.0	0.0	0.20
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	11	10	12	-	10
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>									

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BEAVERTON RIVER

WATER QUALITY MONITORING

STATION: 8-13.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: ON CONCESSION RD., WEST OF THE
VILLAGE OF CANNINGTON

DATE COLLECTED	12.2.64	1.22.65	2.19.65	3.19.65	5.14.65	6.17.65	7.9.65	7.29.65	8.18.65	9.17.65
TEMPERATURE °C	1.0	1.0	0.5	1.0	15.0	18.0	23.0	20.0	21.5	16.0
DISSOLVED OXYGEN	13.2	8.8	9.2	8.6	12.6	7.9	11.2	10.8	9.0	10.0
COLIFORMS (MF/100ML)	970	1,080	420	380	12,000	900	700	160	2,400	630
5-DAY BOD	2.8	5.1	4.5	5.0	1.7	1.8	1.3	1.8	1.8	0.3
TOTAL SOLIDS	-	402	190	298	252	272	238	262	256	262
SUSPENDED SOLIDS	9	18	7	71	8	2	3	7	4	1
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.8	5.0	1.5	9.0	-	2.9	1.1	6.0	3.5	8.0
PHOSPHORUS	(TOTAL	-	-	-	-	0.02	0.24	0.20	0.36	0.12
	(SOLUBLE	-	-	-	-	-	0.10	0.08	0.20	0.12
NITROGENS	(FREE AMMONIA	-	-	-	-	0.12	0.28	0.08	0.20	0.08
	(TOTAL KJELDAHL	-	-	-	-	0.91	1.2	0.65	0.84	1.1
	(NITRITE	-	-	-	-	TR	TR	TR	0.01	0.01
	(NITRATE	-	-	-	-	0.51	TR	0.15	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	7	10	10	18	10
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between; width: 100%;"> AVERAGE MAXIMUM MINIMUM </div>									

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

B E L L E R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: B-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT C.N.R. BRIDGE,
VILLAGE OF BELLE R.

DATE COLLECTED	10.6.64	12.2.64	3.18.65	6.23.65	7.20.65	8.11.65	9.22.65	
TEMPERATURE °C	11.5	2.0	1.0	23.8	23.0	20.0	23.5	
DISSOLVED OXYGEN	7.4	11.2	12.8	8.0	8.4	3.4	0.8	
COLIFORMS (MF/100ML)	220,000	9,000	32,000	10,300	650,000	79,000	670,000	
5-DAY BOD	5.8	4.5	1.8	5.6	4.2	3.2	18.0	
TOTAL SOLIDS	258	218	324	316	262	230	232	
SUSPENDED SOLIDS	54	13	58	58	86	48	32	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	37.0	16.0	37.0	12.0	50.0	30.0	13.5	
PHOSPHORUS	(TOTAL	2.2	0.16	0.68	1.6	1.6	1.4	1.7
	(SOLUBLE	2.1	0.12	0.32	1.3	1.2	1.0	1.3
NITROGENS	(FREE AMMONIA	1.22	1.0	0.48	0.70	0.58	0.46	0.13
	(TOTAL KJELDAHL	2.30	1.6	2.0	2.30	2.0	1.4	2.80
	(NITRITE	0.02	TR	0.03	0.05	0.01	0.01	TR
	(NITRATE	TR	TR	2.4	TR	TR	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	23	-	22	22	19	21	
IRON	-	0.41	-	-	-	-	-	
HARDNESS	-	260	-	-	-	-	-	
ALKALINITY	-	114	-	-	-	-	-	
PH	-	7.7	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM	-	MINIMUM	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

B I G C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: B-3.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy. 18

DATE COLLECTED	12.3.64	6.24.65	7.21.65	8.12.65	9.22.65
TEMPERATURE °C	1.0	21.0	21.5	23.0	24.9
DISSOLVED OXYGEN	14.4	4.0	5.0	8.0	9.0
COLIFORMS (MF/100ML)	20	90	1,460	600	13,000
5-DAY BOD	9.0	3.0	4.4	11.0	12.0
TOTAL SOLIDS	588	484	552	594	538
SUSPENDED SOLIDS	52	21	21	77	44
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	23.0	2.6	12.0	32.0	23.0
PHOSPHORUS	(TOTAL	0.24	-	0.92	-
	(SOLUBLE	0.24	-	0.16	-
NITROGENS	(FREE AMMONIA	0.6	0.30	0.19	0.05
	(TOTAL KJELDAHL	8.3	1.80	1.60	1.8
	(NITRITE	TR	TR	0.0	TR
	(NITRATE	0.0	-	TR	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	110	45	56	63	47
IRON	1.5	-	-	-	-
HARDNESS	700	-	-	-	-
ALKALINITY	370	-	-	-	-
PH	8.1	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

B I G C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: B-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy, No. 59

DATE COLLECTED	10.5.64	11.30.64	1.28.65	5. 19.65	7.6.65	7.26.65	8.26.65	
TEMPERATURE °C	12.0	1.5	1.0	16.5	23.0	24.0	20.0	
DISSOLVED OXYGEN	10.8	13.0	10.0	9.0	11.0	11.2	9.0	
COLIFORMS (MF/100ML)	52	140	190	60	300	500	60	
5-DAY BOD	0.7	2.0	1.8	0.8	0.8	0.6	0.7	
TOTAL SOLIDS	318	322	316	324	234	316	316	
SUSPENDED SOLIDS	12	5	17	14	4	11	13	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	9.0	2.9	7.0	3.5	9.0	7.5	-	
PHOSPHORUS	(TOTAL	0.18	0.08	0.2	0.14	-	0.13	0.16
	(SOLUBLE	0.08	0.06	-	-	-	0.06	0.08
NITROGENS	(FREE AMMONIA	0.03	0.03	0.1	0.10	TR	0.08	TR
	(TOTAL KJELDAHL	0.39	0.3	0.5	0.23	0.40	0.46	0.13
	(NITRITE	0.0	0.01	0.01	TR	TR	TR	TR
	(NITRATE	0.40	0.15	0.80	0.4	0.30	0.40	0.30
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	22	-	16	18	19	17	
IRON	-	0.45	-	-	-	-	-	
HARDNESS	-	256	-	-	-	-	-	
ALKALINITY	-	184	-	-	-	-	-	
PH	-	8.1	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)		AVERAGE	-	MAXIMUM	-	MINIMUM	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BIG HEAD RIVER

WATER QUALITY MONITORING

STATION: B-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT TROWBRIDGE ST. (MEAFORD)

DATE COLLECTED	10.8.64	12.17.64	2.24.65	3.25.65	6.30.65	7.21.65	8.5.65	8.24.65	
TEMPERATURE °C	11.0	1.0	0.1	0.5	19.5	20.0	19.2	19.0	
DISSOLVED OXYGEN	10.4	13.4	13.4	13.8	10.8	10.6	6.8	8.0	
COLIFORMS (MF/100ML)	21,700	2,300	6,800	18,700	19,500	5,800	8,700	22,300	
5-DAY BOD	1.8	4.0	2.5	3.0	1.3	3.2	2.2	-	
TOTAL SOLIDS	194	306	282	308	286	258	200	-	
SUSPENDED SOLIDS	-	15	5	12	15	9	9	-	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	8.0	9.5	-	3.3	6.5	6.5	4.0	-	
PHOSPHORUS (TOTAL	0.42	0.22	0.28	0.2	0.18	0.66	0.50	-	
(SOLUBLE	0.22	0.15	-	-	-	0.66	0.30	-	
(FREE AMMONIA	0.19	0.10	0.10	0.08	0.11	0.29	0.30	-	
NITROGENS (TOTAL KJELDAHL	0.52	0.50	0.30	0.10	0.71	0.98	0.98	-	
(NITRITE	TR	TR	TR	0.0	TR	TR	TR	TR	
(NITRATE	TR	0.6	1.0	0.92	-	0.44	0.24	-	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	5	8	5	-	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BIG OTTER CREEK

WATER QUALITY MONITORING

STATION: 80-0.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE, VILLAGE OF
FORT BURWELL

DATE COLLECTED	10.5.64	11.30.64	1.26.65	5.21.65	7.6.65	7.26.65	8.27.65
TEMPERATURE °C	11.5	0.5	0.5	18	23.3	24.5	21
DISSOLVED OXYGEN	9.6	13.5	9.4	11.2	8.4	10.4	8
COLIFORMS (MF/100ML)	120	130	60	270	3,900	8,000	2,600
5-DAY BOD	0.9	2.0	2.5	1.9	2.4	2.8	1.8
TOTAL SOLIDS	406	364	466	346	384	358	360
SUSPENDED SOLIDS	73	7	39	-	42	37	13
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	51	2.6	12	3.8	27.0	23.0	-
PHOSPHORUS	(TOTAL	.46	.30	.36	0.20	-	0.40
	(SOLUBLE	.20	.20	-	0.04	-	0.18
NITROGENS	(FREE AMMONIA	.03	.05	0.2	0.13	0.11	0.05
	(TOTAL KJELDAHL	.46	.4	.6	1.00	0.65	0.71
	(NITRITE	0.01	0.01	0.01	TR	TR	TR
	(NITRATE	.40	.3	.8	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	28	-	19	22	24	24
IRON	-	.30	-	-	-	-	-
HARDNESS	-	276	-	-	-	-	-
ALKALINITY	-	208	-	-	-	-	-
PH	-	8.1	-	-	-	-	-
DAILY FLOW (CFS)	78.8	91	291	134	70.5	62.0	69.4
YEARLY FLOW (CFS)	AVERAGE	300	MAXIMUM	6,400	MINIMUM	39.6	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BLACK CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: B-0.1

LOCATION: AT NIAGARA BLVD.
TOWNSHIP OF WILLOUGHBY

DATE COLLECTED	10.29.64	2.4.65	5.18.65	7.7.65	7.27.65	8.25.65
TEMPERATURE °C	11	0.25	17.0	21	23.5	22.5
DISSOLVED OXYGEN	12.2	1.4	10.2	9.0	9.8	8
COLIFORMS (MF/100ML)	4,700	4,400	1,100	1,900	32,000	1,040
5-DAY BOD	2.2	2.9	2.3	0.8	0.8	1.5
TOTAL SOLIDS	252	548	610	-	240	246
SUSPENDED SOLIDS	-	10	-	-	22	16
CONDUCTIVITY (MICROS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	40	-	8.5	8.0	12.0	-
PHOSPHORUS	(TOTAL	.30	.38	0.30	0.28	0.20
	(SOLUBLE	.06	-	0.10	-	0.11
NITROGENS	(FREE AMMONIA	0.1	0.3	0.06	0.03	0.10
	(TOTAL KJELDAHL	1.7	1.0	0.91	6.46	0.42
	(NITRITE	TR	TR	TR	TR	TR
	(NITRATE	0.0	0.3	-	-	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	28	27	27	28
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BLACK RIVER

WATER QUALITY MONITORING

STATION: 8-0.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT MOSSINGTON BRIDGE
DOWNSTREAM FROM VILLAGE OF SUTTON

DATE COLLECTED	5.14.65	6.17.65	7.9.65	7.29.65	8.18.65	9.17.65
TEMPERATURE °C	16.5	-	23	20.8	20.0	17.0
DISSOLVED OXYGEN	7.0	-	8.6	8.2	6.0	9.0
COLIFORMS (MF/100ML)	470	38	90	48	140	40
5-DAY BOD	1.8	2.3	1.9	2.0	2.0	0.7
TOTAL SOLIDS	1,678	256	210	212	186	180
SUSPENDED SOLIDS	5	7	6	12	16	51
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	2.6	3.5	4.0	2.6	5.5
PHOSPHORUS (TOTAL)	-	-	0.24	0.20	0.16	0.12
(SOLUBLE)	-	-	0.06	0.06	0.12	0.08
(FREE AMMONIA	0.20	0.10	0.05	0.12	0.00	0.06
NITROGENS (TOTAL KJELDAHL	0.98	1.0	0.84	0.58	0.71	0.60
(NITRITE	TR	0.0	TR	0.00	0.00	TR
(NITRATE	0.15	0.0	TR	0.00	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	11	8	9	12	6
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	98.0	13.9	14.5	14.8	14.5	19.6
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM	
	-		1,720		4.2	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BOWMANVILLE CREEK

WATER QUALITY MONITORING

STATION: B-0.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BRIDGE ON WEST BEACH ROAD
TOWN OF BOWMANVILLE,

DATE COLLECTED	12.3.64	1.21.65	2.18.65	3.25.65	6.18.65	7.6.65	7.27.65	8.17.65
TEMPERATURE °C	1	-	2	1	17.5	21.5	18.6	21.5
DISSOLVED OXYGEN	13.6	-	13.0	13.5	8.3	9.0	6.6	6
COLIFORMS (MF/100ML)	0.0	-	6	2	-	3,400	90	130
5-DAY BOD	0.9	2.4	3.3	3.2	1.2	2.2	4.2	7.4
TOTAL SOLIDS	314	312	286	314	226	314	228	316
SUSPENDED SOLIDS	-	-	14	14	12	30	34	24
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	6	6.5	-	-	7.5	11.5	9.0	21
PHOSPHORUS (TOTAL)	0.17	-	-	-	1.72	-	1.92	1.60
(SOLUBLE)	-	-	-	-	1.72	2.04	1.80	1.08
(FREE AMMONIA	0.1	1.8	1.5	2.46	2.0	0.77	0.66	0.59
NITROGENS (TOTAL KJELDAHL	1.4	2.1	4.0	3.0	2.6	1.2	1.3	1.1
(NITRITE	0.01	TR	TR	TR	.04	0.06	0.09	0.06
(NITRATE	1.5	1.1	0.8	0.72	0.4	0.8	0.44	0.60
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	13	12	14	11
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	32	34	38	32	19.0	19.0	14.5	17.0
YEARLY FLOW (CFS)	AVERAGE		41.2	MAXIMUM	556	MINIMUM	13.0	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BRONTE CREEK

WATER QUALITY MONITORING

STATION: 8-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 2

DATE COLLECTED	10.28.64	11.26.64	2.3.65	3.3.65	5.13.65	7.5.65	7.9.65	
TEMPERATURE °C	11	3.5	.25	1.5	15.7	-	22.5	
DISSOLVED OXYGEN	11.1	12.8	11.7	12.2	9.8	-	8.0	
COLIFORMS (MF/100ML)	48	5,000	270	90	1,700	340	420	
5-DAY BOD	.5	2	4.2	3.5	0.7	2.2	1.4	
TOTAL SOLIDS	380	358	748	472	320	438	334	
SUSPENDED SOLIDS	-	23	378	65	8	22	18	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	3.3	18	45	-	4.0	-	9.0	
PHOSPHORUS	(TOTAL	.14	.16	1.0	.28	0.06	-	0.14
	(SOLUBLE	.12	.06	0.1	.14	0.04	-	0.08
NITROGENS	(FREE AMMONIA	TR	0.0	0.2	0.2	0.08	0.06	0.58
	(TOTAL KJELDAHL	0.2	1.5	1.2	1.7	0.52	0.46	1.80
	(NITRITE	TR	TR	TR	0.01	0.01	0.04	TR
	(NITRATE	0.6	0.7	0.6	0.8	-	-	0.5
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	-	-	-	
IRON	-	-	-	-	-	19	19	
HARDNESS	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BRONTE CREEK

WATER QUALITY MONITORING

STATION: B-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 2

DATE COLLECTED	7.19.65	7.28.65	8.3.65	8.16.65	8.19.65	8.31.65	9.14.65	9.28.65
TEMPERATURE °C	-	18.3	-	-	20.5	14	16.5	10
DISSOLVED OXYGEN	-	9.8	-	-	8.0	9	10	11
COLIFORMS (MF/100ML)	3,800	210	68,000	200	8,000	280	300	240
5-DAY BOD	1.8	0.7	2.8	2.6	2.0	0.5	0.8	0.2
TOTAL SOLIDS	430	240	497	374	310	320	318	342
SUSPENDED SOLIDS	168	14	207	32	31	13	11	5
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	91.9	10.5	240	36	27	26	8.5	26.0
PHOSPHORUS	(TOTAL	0.80	0.16	1.12	0.24	0.20	-	0.13
	(SOLUBLE	0.80	0.02	0.16	0.10	0.16	0.12	0.16
NITROGENS	(FREE AMMONIA	0.11	0.06	TR	0.12	0.02	0.05	0.05
	(TOTAL KJELDAHL	0.87	0.39	0.98	0.33	0.58	1.00	0.33
	(NITRITE	0.01	TR	0.01	0.01	TR	TR	TR
	(NITRATE	0.56	0.0	0.56	0.25	0.15	0.5	0.44
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	29	25	13	26	50	26	23	23
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-	-	-
AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BRONTE CREEK

WATER QUALITY MONITORING

STATION: 8-9.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT APPLEBY LINE
STATION

DATE COLLECTED	7.5.65	7.19.65	8.3.65	8.16.65	8.20.65	8.31.65	9.14.65	9.28.65
TEMPERATURE °C	-	-	-	-	17.5	13.5	16	9
DISSOLVED OXYGEN	-	-	-	-	10	11	10	12
COLIFORMS (MF/100ML)	600	2,500	4,800	210	-	2,700	230	170
5-DAY BOD	0.5	3.6	2.6	1.4	-	0.9	0.6	0.8
TOTAL SOLIDS	324	404	358	384	-	308	342	338
SUSPENDED SOLIDS	24	78	114	11	-	5	3	3
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	53.0	77	9.0	-	9	11	3.8
PHOSPHORUS (TOTAL)	0.14	0.32	0.44	0.20	-	-	0.12	0.12
(SOLUBLE)	**	-	0.10	0.04	-	-	0.12	0.08
(FREE AMMONIA)	.05	0.05	TR	0.05	-	TR	TR	TR
(TOTAL KJELDAHL)	.40	0.46	0.84	0.33	-	0.20	0.33	0.26
(NITRITE)	0.04	TR	TR	TR	-	TR	TR	TR
(NITRATE)	-	0.30	0.56	0.50	-	0.4	0.80	0.40
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	12	26	11	-	-	-	22	16
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>							

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BUTLER CREEK

WATER QUALITY MONITORING

STATION: 8-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: ROAD TO HWY 33 - SOUTH
OF BRIGHTON

DATE COLLECTED	11.30.64	6.15.65	7.7.65	7.27.65	8.17.65	9.14.65
TEMPERATURE °C	0	14.5	17	24.2	22.5	19.5
DISSOLVED OXYGEN	14.6	15.0	10.2	4.6	10	10.0
COLIFORMS (MF/100ML)	600	2,700	-	9,600	4,600	42,000
5-DAY BOD	2.6	1.5	27	7.8	3.0	3.1
TOTAL SOLIDS	394	296	298	312	282	234
SUSPENDED SOLIDS	-	4	18	8	11	12
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	3.8	2.6	3.5	4.0	2.8	7.5
PHOSPHORUS	(TOTAL	.58	-	1.36	2.2	2.0
	(SOLUBLE	.42	-	0.94	1.8	1.8
NITROGENS	(FREE AMMONIA	0.0	TR	0.70	1.2	0.36
	(TOTAL KJELDAHL	0.3	0.91	2.8	2.3	1.00
	(NITRITE	0.1	0.02	TR	0.0	0.02
	(NITRATE	0.6	TR	TR	0.0	0.24
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	18	19	26	24	20
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CANARD RIVER

WATER QUALITY MONITORING

STATION: C-0.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 18

DATE COLLECTED	10.7.64	12.3.64	3.18.65	6.24.65	7.21.65	8.11.65	9.22.65		
TEMPERATURE °C	11	0.5	2.0	22	22	22.5	24.0		
DISSOLVED OXYGEN	11.0	13.1	12.8	8.8	9.2	10	7.5		
COLIFORMS (MF/100ML)	70	750	5,000	340	1,600	400	6,000		
5-DAY BOD	2.8	3.1	1.2	3.0	1.5	2.0	4.8		
TOTAL SOLIDS	468	514	654	772	158	582	448		
SUSPENDED SOLIDS	71	28	286	112	42	66	78		
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-		
TURBIDITY (UNITS)	48	23	50	32.0	29.0	32	37.0		
PHOSPHORUS (TOTAL)	-	0.64	0.72	0.50	0.36	0.6	0.7		
(SOLUBLE)	0.08	0.18	0.12	-	0.10	-	0.3		
(FREE AMMONIA)	0.06	0.2	0.35	0.10	0.10	0.00	1.80		
NITROGENS (TOTAL KJELDAHL)	0.84	0.7	2.0	1.20	0.84	0.52	2.30		
(NITRITE)	TR	TR	0.30	TR	TR	TR	TR		
(NITRATE)	0.0	TR	2.8	0.0	0.0	-	0.0		
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-		
CHLORIDES	-	32	-	302	161	204	105		
IRON	-	0.80	-	-	-	-	-		
HARDNESS	-	190	-	-	-	-	-		
ALKALINITY	-	118	-	-	-	-	-		
PH	-	8.0	-	-	-	-	-		
DAILY FLOW (CFS)	-	-	-	-	-	-	-		
YEARLY FLOW (CFS)	-	-	-	-	-	-	-		
	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CARRUTHER'S CREEK

WATER QUALITY MONITORING

STATION: CA-0.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BRIDGE ON CON. ROAD, EAST OF PICKERING BEACH

DATE COLLECTED	12.3.64	1.21.65	2.18.65	3.25.65	6.18.65	7.8.65	7.28.65	8.18.65
TEMPERATURE °C	0	-	1	1	18	21	24.5	20.5
DISSOLVED OXYGEN	11.6	-	9.8	10.2	8.3	7.8	14.8	8
COLIFORMS (MF/100ML)	120	260	20	1,100	520	78	50	140
5-DAY BOD	2.8	3.1	3.2	4.2	3.7	1.0	2.0	-
TOTAL SOLIDS	512	716	350	444	268	420	252	-
SUSPENDED SOLIDS	-	-	9	24	31	5	12	-
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	8.5	5.0	-	11	10.5	4.5	2.9	-
PHOSPHORUS	(TOTAL	0.06	.24	0.24	0.44	0.44	0.16	0.04
	(SOLUBLE	0.03	0.0	-	0.08	-	0.04	-
NITROGENS	(FREE AMMONIA	0.2	0.6	0.5	0.54	0.20	0.11	0.05
	(TOTAL KJELDAHL	0.8	1.7	0.9	0.80	1.7	0.71	0.39
	(NITRITE	TR	0.02	0.01	0.01	TR	TR	0.0
	(NITRATE	0.0	0.3	0.3	0.34	TR	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	49	57	32	-
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>							

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CATARAQUI RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: C-0.5

LOCATION: AT Hwy 2

DATE COLLECTED	11.30.64	6.15.65	7.8.65	7.28.65	8.18.65	9.15.65
TEMPERATURE °C	3	16	20	21.0	22.0	18.0
DISSOLVED OXYGEN	13.2	10.5	9.6	10.6	8	10
COLIFORMS (MF/100ML)	430	-	350	208	6,000	240
5-DAY BOD	2.1	1.2	2.8	1.6	1.7	1.2
TOTAL SOLIDS	228	188	236	60	200	164
SUSPENDED SOLIDS	-	11	69	15	32	7
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	4.5	12.0	11.0	29	9.0
PHOSPHORUS	(TOTAL	.32	-	0.34	0.16	0.2
	(SOLUBLE	.16	-	0.20	-	0.1
NITROGENS	(FREE AMMONIA	.2	0.20	0.22	0.02	0.03
	(TOTAL KJELDAHL	.9	0.84	0.74	0.39	0.77
	(NITRITE	TR	TR	0.01	0.01	TR
	(NITRATE	TR	0.0	TR	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	24	22	21	28	28	5
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between;"> AVERAGE MAXIMUM MINIMUM </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CATFISH CREEK

WATER QUALITY MONITORING

STATION: C-0.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 73

DATE COLLECTED	10.5.64	12.4.64	1.26.65	7.6.65	7.26.65	8.27.65	
TEMPERATURE °C	11.0	-	0.5	23.4	25.0	22.5	
DISSOLVED OXYGEN	8.8	-	13.0	7.4	9.2	6	
COLIFORMS (MF/100ML)	300	34	10,000	60,000	114,000	2,000	
5-DAY BOD	1.4	1.0	4.2	2.2	0.4	2.0	
TOTAL SOLIDS	390	398	412	376	362	390	
SUSPENDED SOLIDS	12	8	26	56	44	57	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	-	6.5	18	31.0	31.0	-	
PHOSPHORUS	(TOTAL	.32	0.62	0.7	0.64	0.72	0.28
	(SOLUBLE	.30	0.52	-	-	0.33	0.20
NITROGENS	(FREE AMMONIA	.06	0.1	0.3	0.13	.20	TR
	(TOTAL KJELDAHL	.39	0.3	1.0	0.84	0.84	0.40
	(NITRITE	0.0	TR	0.02	TR	.01	TR
	(NITRATE	0.0	0.3	0.8	TR	.01	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	
CHLORIDES	-	29	-	15	17	13	
IRON	-	0.40	-	-	-	-	
HARDNESS	-	280	-	-	-	-	
ALKALINITY	-	228	-	-	-	-	
PH	-	8.2	-	-	-	-	
DAILY FLOW (CFS)	8.7	178	151	5.7	4.4	4.2	
YEARLY FLOW (CFS)	AVERAGE 122 MAXIMUM 4,580 MINIMUM 3.8						

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CEDAR CREEK

WATER QUALITY MONITORING

STATION: C-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 18A

DATE COLLECTED	12.3.64	6.24.65	7.21.65	8.12.65	9.22.65
TEMPERATURE °C	0.0	21.5	22.4	23.5	25.0
DISSOLVED OXYGEN	13.6	8.6	9.4	8	10.5
COLIFORMS (MF/100ML)	40	160	30	40	6,000
5-DAY BOD	3.3	3.2	2.7	1.4	4.2
TOTAL SOLIDS	236	422	220	328	266
SUSPENDED SOLIDS	40	246	13	42	62
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	37	37	7.5	27	27.0
PHOSPHORUS	(TOTAL	0.22	1.06	0.20	0.40
	(SOLUBLE	0.18	0.10	0.13	**
NITROGENS	(FREE AMMONIA	0.2	0.05	0.0	0.00
	(TOTAL KJELDAHL	0.7	2.00	0.71	0.58
	(NITRITE	TR	TR	0.0	0.01
	(NITRATE	TR	**	0.0	**
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	34	25	25	22	29
IRON	1.5	-	-	-	-
HARDNESS	220	-	-	-	-
ALKALINITY	100	-	-	-	-
PH	7.9	-	-	-	-
DAILY FLOW (CFS)	6.5	3.7	1.4	2.4	1.4
YEARLY FLOW (CFS)	AVERAGE 36.8 MAXIMUM 976 MINIMUM 0.1				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CLEAR CREEK

WATER QUALITY MONITORING

STATION: C-0.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT COUNTY RD. 9
TWP. OF HOUGHTON

DATE COLLECTED	11.30.64	5.19.65	7.6.65	7.26.65	8.28.65
TEMPERATURE °C	0.5	15	20	21	21
DISSOLVED OXYGEN	14.2	9.0	9.0	8.2	9
COLIFORMS (MF/100ML)	40	100	2,300	6,000	1,400
5-DAY BOD	1.6	1.3	1.0	1.6	1.2
TOTAL SOLIDS	232	296	348	312	313
SUSPENDED SOLIDS	9	49	58	44	37
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	2.3	8.5	32.0	26.0	-
PHOSPHORUS	(TOTAL	0.08	0.26	-	0.28
	(SOLUBLE	0.04	-	0.14	0.12
NITROGENS	(FREE AMMONIA	0.0	0.13	TR	.12
	(TOTAL KJELDAHL	0.4	0.46	0.46	0.52
	(NITRITE	TR	0.03	TR	0.33
	(NITRATE	0.3	0.4	0.34	0.25
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	14	12	6	6	5
IRON	.51	-	-	-	-
HARDNESS	218	-	-	-	-
ALKALINITY	180	-	-	-	-
PH	8.2	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between; align-items: center;"> AVERAGE - MAXIMUM - MINIMUM - </div>				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

COBBOURG BROOK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: CB-0.4

AT

LOCATION: KING ST. BRIDGE, TWP. OF HAMILTON

DATE COLLECTED	12.3.64	6.15.65	7.6.65	7.27.65	8.17.65	9.14.65
TEMPERATURE °C	2	15.5	22	21.6	24.5	17.0
DISSOLVED OXYGEN	14.0	9.2	9.0	7.6	7	12.0
COLIFORMS (MF/100ML)	246,000	81,000	95,000	1,740,000	190,000	800
5-DAY BOD	-	10	5.2	32	14	1.4
TOTAL SOLIDS	420	374	386	338	308	238
SUSPENDED SOLIDS	-	48	10	40	12	4
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	6.5	30.0	9.0	24.0	6.5	-
PHOSPHORUS	{ TOTAL	.16	-	1.72	4.0	1.32
	{ SOLUBLE	.10	-	1.52	0.80	0.08
NITROGENS	{ FREE AMMONIA	1.9	-	3.20	2.3	3.3
	{ TOTAL KJELDAHL	3.5	4.45	5.40	7.4	4.8
	{ NITRITE	0.01	0.01	0.01	0.0	TR
	{ NITRATE	TR	0.0	0.0	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	41	42	55	43	6
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

C O B O U R G B R O O K

W A T E R Q U A L I T Y M O N I T O R I N G

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: CBCPS-3.6

LOCATION: AT BRIDGE ABOVE FISH POND

DATE COLLECTED 9.14.65

TEMPERATURE °C 17.0

DISSOLVED OXYGEN 13

COLIFORMS (MF/100ML) 350

5-DAY BOD 1.3

TOTAL SOLIDS 284

SUSPENDED SOLIDS 35

CONDUCTIVITY (MICROS/ CM³) -

TURBIDITY (UNITS) 9.0

PHOSPHORUS { TOTAL 0.16
 { SOLUBLE 0.04

NITROGENS { FREE AMMONIA 0.08
 { TOTAL KJELDAHL 0.33
 { NITRITE 0.01
 { NITRATE 0.16

PHENOL EQUIVALENTS (PPB) -

CHLORIDES 3

IRON -

HARDNESS -

ALKALINITY -

PH -

DAILY FLOW (CFS) -

YEARLY FLOW (CFS) AVERAGE - MAXIMUM - MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

COLBORNE CREEK

WATER QUALITY MONITORING

STATION: C-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE NEAR THE
VILLAGE OF LAKEPORT

DATE COLLECTED	11.30.64	6.15.65	7.7.65	7.27.65	8.17.65	9.14.65
TEMPERATURE °C	0	15	16.5	24	24.0	19.0
DISSOLVED OXYGEN	12.3	11.0	11.5	13.2	10	13.0
COLIFORMS (MF/100ML)	390	206	-	126	280	12,000
5-DAY BOD	1.0	0.7	0.4	0.8	1.3	1.2
TOTAL SOLIDS	238	296	256	198	222	256
SUSPENDED SOLIDS	-	18	7	12	15	11
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	2.8	2.6	2.1	-	6.5
PHOSPHORUS	(TOTAL	0.24	-	0.14	0.40	0.24
	(SOLUBLE	0.08	-	0.10	0.33	0.20
NITROGENS	(FREE AMMONIA	0.0	TR	TR	0.02	0.10
	(TOTAL KJELDAHL	0.3	0.46	0.26	0.84	0.39
	(NITRITE	TR	TR	0.01	TR	TR
	(NITRATE	0.5	0.35	0.30	TR	0.20
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	9	8	7	6	7
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

COLLIN'S CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: C-0.0

LOCATION: BRIDGE ON HWY 33
(COLLIN'S BAY)

DATE COLLECTED	11.30.64	6.15.65	7.8.65	7.28.65	8.17.65	9.15.65
TEMPERATURE °C	2	14.5	19.5	20	21.5	18.0
DISSOLVED OXYGEN	13.4	11.2	10.2	9.4	8	8
COLIFORMS (MF/100ML)	20	12	4	0	50	310
5-DAY BOD	2.4	0.1	0.7	2.0	1.5	0.8
TOTAL SOLIDS	206	186	220	-	184	384
SUSPENDED SOLIDS	-	6	1	5	11	11
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	3.6	0.8	2.1	6.0	2.9	4.0
PHOSPHORUS	(TOTAL	0.08	-	0.12	.20	0.12
	(SOLUBLE	0.04	-	-	.08	0.08
NITROGENS	(FREE AMMONIA	0.0	0.10	0.06	.02	0.06
	(TOTAL KJELDAHL	0.3	0.33	0.71	.52	0.71
	(NITRITE	0.0	TR	TR	TR	TR
	(NITRATE	0.0	0.0	TR	.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	23	28	27	25	26
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

COUNTY ROAD DITCH

WATER QUALITY MONITORING

STATION: CD-0.0L

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 40
(LEFT SIDE)

DATE COLLECTED	1.27.65	3.17.65	6.22.65	7.20.65	8.11.65	9.21.65
TEMPERATURE °C	-	-	24.5	22	23.4	36.8
DISSOLVED OXYGEN	-	-	10.0	8.0	7.8	7.9
COLIFORMS (MF/100ML)	28,000	1,890	-	0	700	1,000
5-DAY BOD	42	3.6	1.2	4.4	4.2	1.4
TOTAL SOLIDS	228	220	178	342	230	124
SUSPENDED SOLIDS	20	13	10	13	13	7
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	8.5	3.5	2.6	8.0	12.5	5.5
PHOSPHORUS (TOTAL)	.24	1.0	0.52	2.2	2.0	0.12
(SOLUBLE)	0.0	0.36	0.46	2.0	1.0	0.04
(FREE AMMONIA)	16.4	0.2	0.08	1.6	0.43	0.40
NITROGENS (TOTAL KJELDAHL)	22.0	0.52	0.46	5.9	1.6	0.65
(NITRITE)	.01	0.01	0.01	TR	0.01	TR
(NITRATE)	0.3	0.3	TR	0.4	0.15	TR
PHENOL EQUIVALENTS (PPB)	140	90	-	-	-	-
CHLORIDES	-	-	23	35	33	9
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
COD	-	15	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

COUNTY ROAD DITCH

WATER QUALITY MONITORING

STATION: CD-0,0R

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 40
(RIGHT SIDE)

DATE COLLECTED	1.27.65	3.17.65	6.22.65	7.20.65	8.11.65	9.21.65	
TEMPERATURE °C	-	-	27	21	23	26.5	
DISSOLVED OXYGEN	-	-	9.4	7.8	7.2	7.0	
COLIFORMS (MF/100ML)	11,000	8,100	-	0	900	-	
5-DAY BOD	16	4.7	1.0	1.6	3.6	3.4	
TOTAL SOLIDS	218	204	144	250	270	140	
SUSPENDED SOLIDS	14	13	6	16	29	11	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	6.5	3.1	1.8	9.0	13	6.5	
PHOSPHORUS	(TOTAL	.16	0.1	0.18	0.68	0.4	0.12
	(SOLUBLE	0.0	0.04	0.12	0.64	0.2	0.04
NITROGENS	(FREE AMMONIA	18.1	0.13	0.06	2.0	0.39	0.43
	(TOTAL KJELDAHL	23.5	0.4	0.60	4.4	1.5	0.91
	(NITRITE	.01	0.01	0.02	TR	0.01	TR
	(NITRATE	0.4	0.3	0.0	0.4	0.15	TR
PHENOL EQUIVALENTS (PPB)	120	95	-	-	-	-	
CHLORIDES	-	-	13	31	39	13	
IRON	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	
PH	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE MAXIMUM MINIMUM						

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CREDIT RIVER

WATER QUALITY MONITORING

STATION: C-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 2 (PORT CREDIT)

DATE COLLECTED	10.28.64	11.26.64	2.3.65	3.3.65	5.13.65	6.15.65	6.30.65	
TEMPERATURE °C	11	4.5	0.25	1	16	-	-	
DISSOLVED OXYGEN	12.1	11.4	12.4	11.6	8.2	-	-	
COLIFORMS (MF/100ML)	220	26,000	2,400	1,800	600	-	-	
5-DAY BOD	1.6	2.4	3.0	3.2	2.2	1.5	1.4	
TOTAL SOLIDS	344	380	398	490	288	268	294	
SUSPENDED SOLIDS	-	44	7	64	16	18	17	
CONDUCTIVITY (MHOS/ CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	4	20	5	20	5.5	-	8.0	
PHOSPHORUS	(TOTAL	.46	.68	.66	.72	0.24	-	0.54
	(SOLUBLE	.38	.60	-	.48	-	-	-
NITROGENS	(FREE AMMONIA	.10	0.1	0.7	0.7	0.16	-	0.08
	(TOTAL KJELDAHL	.33	1.7	1.0	8.3	0.84	-	0.65
	(NITRITE	0.01	TR	TR	0.01	TR	-	TR
	(NITRATE	TR	0.7	1.0	0.4	-	-	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	-	-	27	
IRON	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CREDIT RIVER

WATER QUALITY MONITORING

STATION: C-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 2
(PORT CREDIT)

DATE COLLECTED	7.9.65	7.14.65	7.28.65	8.17.65	8.19.65	8.31.65	9.14.65	
TEMPERATURE °C	22.5	-	19.5	-	23	-	-	
DISSOLVED OXYGEN	11.1	-	9.8	-	10	-	-	
COLIFORMS (MF/100ML)	1,200	-	3,000	-	450	-	-	
5-DAY BOD	2.0	2.0	1.4	2.5	3.5	1.7	1.2	
TOTAL SOLIDS	314	264	254	250	278	290	300	
SUSPENDED SOLIDS	14	13	8	13	9	28	4	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	6.0	-	8.5	8.0	15.5	27	10	
PHOSPHORUS	(TOTAL	0.52	0.32	0.18	0.60	0.36	-	0.44
	(SOLUBLE	0.44	0.20	0.18	0.24	0.38	-	0.40
NITROGENS	(FREE AMMONIA	0.08	0.10	0.12	0.08	0.06	0.06	0.05
	(TOTAL KJELDAHL	0.60	0.58	0.43	0.52	0.48	0.40	0.33
	(NITRITE	0.01	TR	TR	0.01	TR	TR	0.01
	(NITRATE	TR	0.0	0.0	TR	0.00	-	0.40
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	32	36	30	28	50	-	42	
IRON	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM		-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CREDIT RIVER

WATER QUALITY MONITORING

STATION: C-4.9

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: No. 5
HWY

DATE COLLECTED	6.15.65	6.30.65	7.14.65	8.17.65	8.31.65	9.14.65
TEMPERATURE °C	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	-	-	-	-
5-DAY BOD	1.6	1.7	1.5	1.7	1.6	2.4
TOTAL SOLIDS	294	356	263	262	270	292
SUSPENDED SOLIDS	15	17	6	13	5	2
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	5.0	-	5.0	21	12
PHOSPHORUS (TOTAL)	-	0.62	0.54	0.60	0.60	0.63
(SOLUBLE)	-	-	0.48	0.58	0.48	0.52
(FREE AMMONIA)	-	0.08	TR	0.06	0.05	0.05
NITROGENS (TOTAL KJELDAHL)	-	0.65	0.71	0.46	0.26	0.26
(NITRITE)	-	0.01	0.01	0.01	0.01	0.02
(NITRATE)	-	0.0	0.0	0.10	0.15	0.28
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	32	22	26	-	19
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	91.0	117	-	60.3	60.3	82.2

YEARLY FLOW (CFS)	AVERAGE	265	MAXIMUM	3,920	MINIMUM	55.7
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RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CREDIT RIVER

WATER QUALITY MONITORING

STATION: C-21.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 7

DATE COLLECTED	6.15.65	6.30.65	7.14.65	8.17.65	8.31.65	9.14.65
TEMPERATURE °C	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	-	-	-	-
5-DAY BOD	1.6	2.4	2.5	1.5	3.2	2.4
TOTAL SOLIDS	334	402	354	298	232	322
SUSPENDED SOLIDS	13	54	32	13	15	20
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	21.0	-	8.5	17	24
PHOSPHORUS (TOTAL)	-	0.74	0.66	0.56	-	0.64
PHOSPHORUS (SOLUBLE)	-	-	0.56	0.54	0.48	0.48
NITROGENS (FREE AMMONIA)	-	0.22	0.20	0.16	0.20	0.23
NITROGENS (TOTAL KJELDAHL)	-	1.0	0.71	0.39	0.40	0.71
NITROGENS (NITRITE)	-	0.05	0.05	0.05	0.05	0.05
NITROGENS (NITRATE)	-	0.20	0.20	0.25	0.25	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	22	23	24	24	18
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SILVER CREEK

WATER QUALITY MONITORING

STATION: CS-21.9

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 7

DATE COLLECTED	11.23.64	12.14.64	1.19.65	3.16.65	5.17.65	6.15.65	6.30.65		
TEMPERATURE °C	2.0	0.25	0.5	2	15	-	-		
DISSOLVED OXYGEN	14.2	13.2	11.6	14.2	10.0	-	-		
COLIFORMS (MF/100ML)	220	330	0	370	410	-	-		
5-DAY BOD	8.0	3.5	2.9	1.4	5.9	7.0	9.4		
TOTAL SOLIDS	550	434	526	320	-	510	760		
SUSPENDED SOLIDS	-	20	7	25	23	15	222		
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-		
TURBIDITY (UNITS)	27	17	2.6	9.0	4.5	-	53.0		
PHOSPHORUS (TOTAL)	-	-	-	-	0.82	-	2.0		
(SOLUBLE)	-	-	-	-	0.80	-	1.08		
(FREE AMMONIA)	-	-	-	-	-	-	1.15		
(TOTAL KJELDAHL)	-	-	-	-	-	-	3.0		
(NITRITE)	-	-	-	-	-	-	0.05		
(NITRATE)	-	-	-	-	-	-	0.05		
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-		
CHLORIDES	-	-	79	19	170	-	80		
IRON	-	-	-	-	-	-	-		
HARDNESS	-	-	-	-	-	-	-		
ALKALINITY	-	-	-	-	-	-	-		
PH	-	-	-	-	-	-	-		
DAILY FLOW (CFS)	-	-	-	-	-	-	-		
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SILVER CREEK

WATER QUALITY MONITORING

STATION: CS-21.9

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 7

DATE COLLECTED	7.14.65	7.20.65	8.17.65	8.25.65	8.31.65	9.14.65	
TEMPERATURE °C	-	19	-	21	-	-	
DISSOLVED OXYGEN	-	11.4	-	10.5	-	-	
COLIFORMS (MF/100ML)	-	900	-	130	-	-	
5-DAY BOD	8.2	5.8	5.4	9.2	11	8.6	
TOTAL SOLIDS	510	502	474	480	502	476	
SUSPENDED SOLIDS	22	30	19	7	10	5	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	-	9.0	5.5	-	17	16	
PHOSPHORUS	(TOTAL	2.16	2.0	1.60	2.1	-	3.6
	(SOLUBLE	1.92	-	1.38	1.4	3.12	3.2
NITROGENS	(FREE AMMONIA	0.90	1.47	0.72	1.6	1.64	1.15
	(TOTAL KJELDAHL	1.70	2.6	1.5	2.2	2.60	2.80
	(NITRITE	0.10	0.20	0.30	0.3	0.20	0.30
	(NITRATE	0.40	0.46	0.50	1.0	1.00	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	
CHLORIDES	83	71	-	69	74	71	
IRON	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	
PH	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE - MAXIMUM - MINIMUM						

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BLACK CREEK

WATER QUALITY MONITORING

STATION: CBS-31.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 3RD LINE, TWP OF
ESQUESING

DATE COLLECTED	11.23.64	12.14.64	1.19.65	3.16.65	5.17.65	6.15.65	6.30.65
TEMPERATURE °C	3.5	2.0	1.5	5.5	14.5	-	-
DISSOLVED OXYGEN	8.9	8.9	9.8	9.0	9.0	-	-
COLIFORMS (MF/100ML)	62	96	28	910	380	-	-
5-DAY BOD	4.4	7.0	5.4	13	14	21.2	6.0
TOTAL SOLIDS	1,162	938	930	740	676	1,120	856
SUSPENDED SOLIDS	-	7	8	24	42	34	9
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	6.5	5.5	5.0	16	2.9	-	1.7
PHOSPHORUS	(TOTAL	-	-	-	2.2	-	2.6
	(SOLUBLE	-	-	-	1.8	-	***
NITROGENS	(FREE AMMONIA	-	-	-	2.46	-	3.84
	(TOTAL KJELDAHL	-	-	-	6.00	-	4.8
	(NITRITE	-	-	-	0.20	-	0.12
	(NITRATE	-	-	-	***	-	0.26
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	360	265	395	205	170	-	256
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BLACK CREEK

WATER QUALITY MONITORING

STATION: CBS-31.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 3RD LINE - TWP. OF
ESQUESING

DATE COLLECTED	7.14.65	7.20.65	8.17.65	8.25.65	8.31.65	9.14.65	
TEMPERATURE °C	-	17	-	18.5	1.25	-	
DISSOLVED OXYGEN	-	8.2	-	5.0	0.20	-	
COLIFORMS (MF/100ML)	-	900	-	280	-	-	
5-DAY BOD	-	4.6	13	11	5.4	9.6	
TOTAL SOLIDS	892	632	952	888	1148	932	
SUSPENDED SOLIDS	5	7	7	4	3	5	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	-	2.6	1.3	-	18	11	
PHOSPHORUS	(TOTAL	3.2	**	6.5	5.4	-	4.8
	(SOLUBLE	3.2	**	55	4.7	3.36	4.4
NITROGENS	(FREE AMMONIA	1.64	1.64	2.6	3.3	2.0	2.62
	(TOTAL KJELDAHL	3.50	2.8	3.4	3.5	3.1	4.30
	(NITRITE	0.10	0.25	0.50	0.2	0.2	0.20
	(NITRATE	0.20	**	1.0	1.0	1.25	1.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	
CHLORIDES	241	**	269	225	-	261	
IRON	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	
PH	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CREDIT RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: CW-45.6

LOCATION: AT MILL STREET
VILLAGE OF ERIN

DATE COLLECTED	10.16.64	11.23.64	12.14.64	1.19.65	3.16.65	5.17.65	7.20.65	8.25.65
TEMPERATURE °C	12.5	1.0	0.5	0.25	1	15.5	19	14.5
DISSOLVED OXYGEN	11.0	15.1	12.7	12.2	14.0	9.4	11.8	9.5
COLIFORMS (MF/100ML)	700	50	3,800	1,000	900	850	5,300	610
5-DAY BOD	1.5	2.3	2.2	4.3	1.7	2.3	2.4	2.4
TOTAL SOLIDS	242	276	288	302	248	-	250	240
SUSPENDED SOLIDS	-	-	2	4	1	5	5	2
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.7	2.1	1.7	2.9	1.1	2.9	1.8	-
PHOSPHORUS	(TOTAL	-	-	-	-	0.28	-	0.20
	(SOLUBLE	-	-	-	-	0.12	-	0.20
NITROGENS	(FREE AMMONIA	-	-	-	-	0.05	0.08	0.05
	(TOTAL KJELDAHL	-	-	-	-	1.30	0.67	0.39
	(NITRITE	-	-	-	-	0.01	TR	TR
	(NITRATE	-	-	-	-	-	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	7	8	6
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CREDIT RIVER

WATER QUALITY MONITORING

STATION: C-52.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 10 & 24 - SOUTH
OF ORANGEVILLE

DATE COLLECTED	10.16.64	11.23.64	12.14.64	1.19.65	3.16.65	5.17.65	6.15.65
TEMPERATURE °C	10.5	0.5	0.25	0.25	4	14	-
DISSOLVED OXYGEN	3.8	6.2	7.8	2.8	8.0	7.0	-
COLIFORMS (MF/100ML)	62	158	128	92	150	380	-
5-DAY BOD	4.7	2.6	2.0	6.8	2.4	4.4	2.9
TOTAL SOLIDS	382	378	356	468	352	368	374
SUSPENDED SOLIDS	-	-	4	8	3	6	5
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	2.6	3.6	1.1	5.5	2.1	2.0	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	1.0	-
(SOLUBLE)	-	-	-	-	-	0.96	-
(FREE AMMONIA)	-	-	-	-	-	0.26	-
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	1.80	-
(NITRITE)	-	-	-	-	-	0.03	-
(NITRATE)	-	-	-	-	-	0.28	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-
IRON	-	-	-	-	-	33	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CREDIT RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: C-52.0

LOCATION: HWY 10 & 24 - SOUTH
OF ORANGEVILLE

DATE COLLECTED	6.30.65	7.14.65	7.20.65	8.17.65	8.25.65	8.31.65	9.14.65
TEMPERATURE °C	-	-	15	-	16.5	-	-
DISSOLVED OXYGEN	-	-	3	-	4.2	-	-
COLIFORMS (MF/100ML)	-	-	46	-	170	-	-
5-DAY BOD	4.1	3.6	2.0	1.3	2.2	2.2	2.2
TOTAL SOLIDS	442	378	414	396	396	408	396
SUSPENDED SOLIDS	12	17	2	7	7	15	2
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.1	-	1.8	1.1	-	31	16
PHOSPHORUS	(TOTAL	2.6	3.72	4.3	4.9	5.6	3.7
	(SOLUBLE	-	-	-	4.3	4.7	3.04
NITROGENS	(FREE AMMONIA	0.96	1.45	1.64	3.2	2.6	2.13
	(TOTAL KJELDAHL	1.6	3.00	2.6	3.5	2.8	4.45
	(NITRITE	0.25	0.03	0.04	0.01	0.12	0.03
	(NITRATE	0.32	0.10	0.3	TR	TR	0.20
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	30	-	31	33	28	28	31
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-	-
<div style="display: flex; justify-content: space-between; width: 100%;"> AVERAGE MAXIMUM MINIMUM </div>							

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DEDRICH CREEK

WATER QUALITY MONITORING

STATION: D-0.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT FRONT ROAD, TWP. OF
WALSINGHAM, SOUTH

DATE COLLECTED	10.5.64	11.30.64	1.26.65	5.19.65	7.7.65	7.26.65	8.26.65
TEMPERATURE °C	11.5	0.5	0.5	16.0	19.5	23.0	21.5
DISSOLVED OXYGEN	12.4	15.4	12.2	8.4	7.0	9.2	7
COLIFORMS (MF/100ML)	90	270	410	700	12,700	5,000	480
5-DAY BOD	1.8	2.5	2.8	1.4	2.2	4.4	1.2
TOTAL SOLIDS	298	272	238	302	290	234	318
SUSPENDED SOLIDS	10	7	20	-	-	68	74
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	4.0	9	27	53.0	48.0	-
PHOSPHORUS (TOTAL)	.12	.16	.28	-	-	0.36	0.32
(SOLUBLE)	.08	.02	-	-	-	0.11	0.14
(FREE AMMONIA)	.03	.03	.1	0.13	0.13	.03	0.06
NITROGENS (TOTAL KJELDAHL)	.39	.30	.8	0.46	0.40	1.1	0.33
(NITRITE)	0.0	TR	TR	0.01	0.01	0.01	TR
(NITRATE)	0.0	0.2	0.6	0.0	-	0.10	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	13	-	6	5	6	4
IRON	-	.47	-	-	-	-	-
HARDNESS	-	222	-	-	-	-	-
ALKALINITY	-	184	-	-	-	-	-
PH	-	8.3	-	-	-	-	-
DAILY FLOW (CFS)	8.3	11	70	16.5	6.8	5.5	4.0
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>34.1</div> <div>MAXIMUM</div> <div>603</div> <div>MINIMUM</div> <div>3.8</div> </div>						

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DON RIVER

WATER QUALITY MONITORING

STATION: D-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BRIDGE AT LAKESHORE RD.

DATE COLLECTED	12.3.64	1.21.65	2.18.65	3.25.65	7.6.65	7.26.65	8.16.65
TEMPERATURE °C	1	4	5	5	19	22	21.5
DISSOLVED OXYGEN	8.9	11.4	11.6	11.2	10.2	5.2	-
COLIFORMS (MF/100ML)	229,000	370,000	74,000	19,000	97,000	58,000	140,000
5-DAY BOD	18	21	11	11.2	13	25	17
TOTAL SOLIDS	1,158	1,230	606	1,204	614	558	686
SUSPENDED SOLIDS	-	-	33	34	53	20	12
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	21	12	-	13	10.0	11.0	11.0
PHOSPHORUS (TOTAL)	8.5	10	5.6	5.8	6.4	3.24	-
(SOLUBLE)	2.0	10	4.2	5.2	-	3.04	5.8
(FREE AMMONIA)	8.2	5.7	5.7	8.20	-	5.79	5.3
NITROGENS (TOTAL KJELDAHL)	17.0	6.6	9.9	8.60	6.8	6.8	7.4
(NITRITE)	0.05	0.06	0.04	0.04	-	0.03	0.6
(NITRATE)	0.0	0.55	0.5	0.46	0.6	TR	0.5
PHENOL EQUIVALENTS (PPB)	-	-	10	18	-	2	2
CHLORIDES	-	-	-	-	116	100	-
IRON	-	-	0.90	1.60	0.99	0.78	.80
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	64.0	50.9	58.0	60.0	47.5	44.1	44.1
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between;"> AVERAGE 109 MAXIMUM 2,480 MINIMUM 39.0 </div>						

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

WEST DON RIVER

WATER QUALITY MONITORING

STATION: DW-13.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: SHEPPARD AVE.

DATE COLLECTED 8.18.65

TEMPERATURE °C 19.0

DISSOLVED OXYGEN 11.0

COLIFORMS (MF/100ML) 21,000

5-DAY BOD 5.4

TOTAL SOLIDS 464

SUSPENDED SOLIDS 74

CONDUCTIVITY (MHOS/CM²) -

TURBIDITY (UNITS) 59

PHOSPHORUS { TOTAL 1.0
SOLUBLE 0.8

NITROGENS { FREE AMMONIA 0.03
TOTAL KJELDAHL 1.2
NITRITE 0.03
NITRATE TR

PHENOL EQUIVALENTS (PPB) -

CHLORIDES 85

IRON -

HARDNESS -

ALKALINITY -

PH -

DAILY FLOW (CFS) 10.6

YEARLY FLOW (CFS)	AVERAGE	25.9	MAXIMUM	760	MINIMUM	5.0
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RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GERMAN MILLS CREEK

WATER QUALITY MONITORING

STATION: DEG-22.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: OBSERVATORY LANE (RICHMOND HILL)

DATE COLLECTED	10.1.64	12.2.64	1.22.65	2.19.65	3.19.65	5.14.65	6.17.65	7.9.65	7.29.65	8.18.65
TEMPERATURE °C	18	5	3	3	5	18	21	21.5	20.5	19.5
DISSOLVED OXYGEN	3.2	7.9	9.0	8.8	7.8	7.4	4.6	3.9	4.2	4.0
COLIFORMS (MF/100ML)	66,000	121,000	10	2	20	18,000	57,000	8,100	27,000	90,000
5-DAY BOD	12	22	31	30	22	14	142	36	22	11
TOTAL SOLIDS	650	-	908	718	423	842	828	746	864	734
SUSPENDED SOLIDS	-	37	45	27	76	35	140	20	11	11
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	18	11	24	20	34	-	31.0	2.9	9.0	7.5
PHOSPHORUS	(TOTAL									
	-	-	-	-	-	-	33	25	30	16.0
PHOSPHORUS	(SOLUBLE									
	-	-	-	-	-	-	32	23	29	4.36
NITROGENS	(FREE AMMONIA									
	-	-	-	-	-	16.4	14.1	5.1	9.0	9.0
	(TOTAL KJELDAHL									
	-	-	-	-	-	23.0	57.7	5.3	9.9	11
NITROGENS	(NITRITE									
	-	-	-	-	-	0.3	2.5	1.4	2.0	1.2
NITROGENS	(NITRATE									
	-	-	-	-	-	TR	0.1	12.5	13	6.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	139	127	143	155
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>									

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DUFFIN CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: DF-1.8

LOCATION: BRIDGE ON BASELINE
RD. PICKERING TWP.

DATE COLLECTED	12.3.64	1.21.65	2.19.65	3.25.65	6.18.65	7.8.65	7.26.65	8.17.65
TEMPERATURE °C	1	1	2	3	17	19.5	23.8	21.0
DISSOLVED OXYGEN	13.2	13.2	13.8	13.6	9.3	10.8	12.4	9
COLIFORMS (MF/100ML)	420	670	560	230	900	270	1,800	170
5-DAY BOD	2.2	2.1	3.1	2.6	2.1	1.6	2.2	1.0
TOTAL SOLIDS	334	354	306	348	234	360	304	274
SUSPENDED SOLIDS	-	-	22	37	10	44	16	24
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	4.5	2.6	-	-	9.0	27	13.5	-
PHOSPHORUS	(TOTAL	0.12	-	0.24	-	0.26	0.12	0.20
	(SOLUBLE	0.05	-	0.2	-	-	0.10	0.08
NITROGENS	(FREE AMMONIA	0.1	0.2	0.4	0.5	TR	0.10	0.06
	(TOTAL KJELDAHL	0.3	0.3	2.0	0.52	0.46	0.46	0.33
	(NITRITE	TR	0.01	TR	0.01	TR	TR	TR
	(NITRATE	0.3	.45	0.4	0.54	0.0	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	4	-	-	-	-	-	-
CHLORIDES	-	-	-	-	9	9	10	13
IRON	-	0.59	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	49.8	29.0	46	32	24	30.0	37.0	26.0
YEARLY FLOW (CFS)	AVERAGE	76.5	MAXIMUM	1,930	MINIMUM	21.0		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

EIGHT MILE CREEK

WATER QUALITY MONITORING

STATION: E-1.C

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT LAKESHORE RD.
TWP. OF NIAGARA

DATE COLLECTED	10.29.64	2.4.65	3.4.65	5.18.65	7.8.65	7.28.65	8.25.65
TEMPERATURE °C	11	.5	2	15.5	21.0	19.0	18
DISSOLVED OXYGEN	10	12.6	11.0	10.4	8.0	7.9	8
COLIFORMS (MF/100ML)	600	310	3,600	78	150,000	-	12,000
5-DAY BOD	3.0	3.0	6.6	2.0	1.6	1.2	1.5
TOTAL SOLIDS	238	598	282	386	296	272	264
SUSPENDED SOLIDS	-	22	72	4	4	57	2
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	24	2.9	20.0	10.0	-
PHOSPHORUS (TOTAL	.40	.62	1.08	0.24	0.42	0.44	0.20
(SOLUBLE	-	-	0.72	0.10	0.24	0.20	0.12
(FREE AMMONIA	0.0	0.4	1.0	0.05	0.06	0.03	0.02
NITROGENS (TOTAL KJELDAHL	0.9	1.1	1.7	0.77	0.58	0.91	0.26
(NITRITE	TR	0.01	0.02	0.0	TR	TR	TR
(NITRATE	0.0	1.0	0.6	0.0	0.4	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	39	11	30	-
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ETOBICOKE CREEK

WATER QUALITY MONITORING

STATION: E-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 2

DATE COLLECTED	10.23.64	11.23.64	1.19.65	3.3.65	5.12.65	7.9.65	7.28.65	8.19.65
TEMPERATURE °C	11	.5	.25	1	15.9	24.5	20.2	22
DISSOLVED OXYGEN	11.1	13.5	11.0	15.2	11.2	9.8	10.8	13
COLIFORMS (MF/100ML)	40,000	3,800	18,000	1,400	3,500	800	68,000	6,300
5-DAY BOD	3.4	56	6.0	6.8	4.4	4.6	3.0	5.4
TOTAL SOLIDS	764	894	918	1,068	688	548	754	770
SUSPENDED SOLIDS	-	-	17	15	6	14	15	12
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	10	45	6	3.8	3.8	7.5	10.0	6.5
PHOSPHORUS (TOTAL)	20	15	10.4	5.2	3.0	3.0	9	7.5
(SOLUBLE)	13	14	10.4	5.0	-	2.0	5	5.7
(FREE AMMONIA)	1.8	8.2	7.4	6.4	0.70	0.10	0.72	0.05
NITROGENS (TOTAL KJELDAHL)	2.8	13.0	10	12.0	1.6	1.05	0.84	1.1
(NITRITE)	.15	0.04	0.05	0.05	0.02	0.10	0.03	0.02
(NITRATE)	2.5	1.0	0.75	0.3	-	0.5	0.88	0.30
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	126	104	177	130
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-	-	-
	AVERAGE	-	MAXIMUM	-	MINIMUM	-		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ETOBICOKE CREEK

WATER QUALITY MONITORING

STATION: EW-12.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT DERRY ROAD EAST
TWP. OF TORONTO

DATE COLLECTED	10.16.64	11.23.64	12.14.64	1.19.65	3.16.65	5.17.65	7.20.65	8.25.65
TEMPERATURE °C	15.5	4.0	2.0	0.5	4.0	16.5	21	23
DISSOLVED OXYGEN	3.2	8.5	8.4	11.0	12.4	10.0	12.2	8.5
COLIFORMS (MF/100ML)	16,000	110,000	690,000	40	7,000	48,000	47,000	100,000
5-DAY BOD	13	52	18	32	13	8.0	12	25
TOTAL SOLIDS	964	1,018	838	980	526	768	858	978
SUSPENDED SOLIDS	-	-	34	22	188	15	77	43
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	12	45	20	18	48	5.5	13.5	-
PHOSPHORUS (TOTAL	-	-	-	-	-	9.8	16	25
(SOLUBLE	-	-	-	-	-	9.4	4.6	21
(FREE AMMONIA	-	-	-	-	-	8.20	13.1	20
(TOTAL KJELDAHL	-	-	-	-	-	11.0	18.0	21
(NITRITE	-	-	-	-	-	0.25	0.25	0.2
(NITRATE	-	-	-	-	-	0.36	TR	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	315	163	200
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

FIFTEEN MILE CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: V-2.3

LOCATION: AT 4TH AVENUE - TWP. OF
LOUTH

DATE COLLECTED	10.28.64	2.4.65	3.4.65	5.18.65	7.8.65	7.23.65	8.25.65
TEMPERATURE °C	11	0.5	1	18.1	20	19.5	DRIED
DISSOLVED OXYGEN	12	12.8	10.6	8.2	7.8	11.8	UP
COLIFORMS (MF/100ML)	28	220	6,000	30	1,500	54,000	-
5-DAY BOD	1.4	3.2	3.1	1.4	7.0	2.6	-
TOTAL SOLIDS	670	386	238	704	570	1,056	-
SUSPENDED SOLIDS	-	14	36	-	86	530	-
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	5.5	8.0	-	10	21.0	780.0	-
PHOSPHORUS	TOTAL	.14	.28	0.44	0.36	0.36	0.40
	SOLUBLE	.08	-	0.32	0.22	0.06	0.29
NITROGENS	FREE AMMONIA	0.0	0.2	0.3	0.11	TR	0.03
	TOTAL KJELDAHL	1.0	0.8	5.0	0.91	1.70	1.1
	NITRITE	TR	TR	0.01	TR	0.03	TR
	NITRATE	0.0	0.7	0.5	-	1.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	49	52	110	-
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

40 MILE CREEK

WATER QUALITY MONITORING

STATION: F-0.25

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: DOWNSTREAM FROM GRIMSBY

DATE COLLECTED	10.29.64	11.26.64	2.3.65	3.4.65	5.13.65	7.8.65	7.28.65	8.24.65	
TEMPERATURE °C	13	10	1	2.5	17	22	20	20	
DISSOLVED OXYGEN	5.0	7.4	10.6	11.1	8.4	5.8	7.6	7	
COLIFORMS (MF/100ML)	38,000,000	1,300,000	680,000	1,090,000	12,000	880,000	390	69,000	
5-DAY BOD	380	63	9	21	14	8.8	1.3	3.8	
TOTAL SOLIDS	1,340	1,990	762	488	1,238	668	1,020	1,164	
SUSPENDED SOLIDS	-	103	13	47	35	20	9	7	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	780	30	10	11.5	10	7.5	4.0	-	
PHOSPHORUS (TOTAL)	29	11	-	2.8	6.0	26	0.18	25	
(SOLUBLE)	14	5.3	-	2.8	5.7	20	0.08	21	
(FREE AMMONIA	13.1	6.6	7.1	3.8	4.75	0.28	0.02	0.66	
(TOTAL KJELDAHL	55.0	6.6	7.8	6.6	8.10	3.60	0.46	2.6	
(NITRITE	TR	0.1	0.07	0.02	0.02	0.25	TR	0.2	
(NITRATE	TR	1.25	0.7	1.3	1.3	10.0	0.0	5.00	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	183	75	231	-	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

FOUR MILE CREEK

WATER QUALITY MONITORING

STATION: F-0.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT LAKESHORE ROAD
TWP. OF NIAGARA

DATE COLLECTED	10.29.65	2.4.65	3.4.65	5.19.65	7.8.65	7.28.65	8.25.65	
TEMPERATURE °C	11	0.5	0.75	17.5	19.0	20.5	19	
DISSOLVED OXYGEN	4.7	11.2	11.0	9.4	5.0	10.2	10	
COLIFORMS (MF/100ML)	200	9,000	6,300	158	37,000	-	21,000	
5-DAY BOD	6.4	4.2	5.4	1.1	4.0	3.0	2.6	
TOTAL SOLIDS	796	716	270	688	628	456	514	
SUSPENDED SOLIDS	-	11	68	6	19	44	22	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	8.5	8.0	39	1.7	6.0	23.0	-	
PHOSPHORUS	{ TOTAL	1.2	0.38	0.88	0.24	0.58	0.32	0.48
	{ SOLUBLE	.70	-	0.64	0.14	0.22	0.10	0.20
NITROGENS	{ FREE AMMONIA	0.2	0.6	0.4	0.13	0.30	0.05	0.03
	{ TOTAL KJELDAHL	1.0	1.5	5.0	0.84	1.2	1.1	1.1
	{ NITRITE	TR	0.03	0.02	0.01	TR	TR	0.0
	{ NITRATE	TR	1.5	0.6	TR	0.0	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	100	76	54	-	
IRON	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE -			MAXIMUM -		MINIMUM -		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

FOUR MILE CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: F-4.8

LOCATION: DOWNSTREAM FROM THE
HAMLET OF VIRGIL

DATE COLLECTED	5.18.65	7.8.65	7.28.65	8.25.65
TEMPERATURE °C	19.5	19	18.5	19
DISSOLVED OXYGEN	12.0	5.8	6.8	8
COLIFORMS (MF/100ML)	160	51,000	13,000	62,000
5-DAY BOD	2.2	3.8	2.2	1.4
TOTAL SOLIDS	664	1,110	574	770
SUSPENDED SOLIDS	26	528	72	36
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-
TURBIDITY (UNITS)	7	480.0	28.0	-
PHOSPHORUS (TOTAL)	0.18	2.4	0.48	0.40
(SOLUBLE)	0.06	0.46	0.14	0.16
(FREE AMMONIA)	0.08	0.30	0.05	0.13
NITROGENS (TOTAL KJELDAHL)	0.65	2.3	1.3	0.46
(NITRITE)	0.02	0.5	TR	0.03
(NITRATE)	-	0.8	0.0	0.10
PHENOL EQUIVALENTS (PPB)	-	-	-	-
CHLORIDES	98	81	72	-
IRON	-	-	-	-
HARDNESS	-	-	-	-
ALKALINITY	-	-	-	-
PH	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE -</div> <div>MAXIMUM -</div> <div>MINIMUM -</div> </div>			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

FOUR MILE CREEK

WATER QUALITY MONITORING

STATION: F-7.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 7TH LINE
ROAD

DATE COLLECTED	3.4.65	5.18.65	7.8.65	7.28.65	8.25.65
TEMPERATURE °C	-	18.0	18.5	17.0	20
DISSOLVED OXYGEN	-	12.8	6.6	8.4	8
COLIFORMS (MF/100ML)	8,700	6,000	68,000	160,000	73,000
5-DAY BOD	6.8	1.1	4.4	2.4	16
TOTAL SOLIDS	802	680	1,048	668	774
SUSPENDED SOLIDS	504	18	226	47	25
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	71	4.0	190.0	200	-
PHOSPHORUS (TOTAL)	-	0.70	1.64	0.52	0.44
(SOLUBLE)	-	0.64	0.54	0.49	0.08
(FREE AMMONIA)	-	0.01	0.26	0.03	0.00
NITROGENS (TOTAL KJELDAHL)	-	0.65	1.45	0.84	0.46
(NITRITE)	-	0.02	0.4	0.04	TR
(NITRATE)	-	-	0.5	0.46	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	57	136	66	-
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

FOUR MILE CREEK

WATER QUALITY MONITORING

STATION: F-8.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: DOWNSTREAM FROM THE POLICE
VILLAGE OF ST. DAVID'S

DATE COLLECTED	3.4.65	5.18.65	7.8.65	7.27.65	8.25.65	
TEMPERATURE °C	-	17.5	17	18	18	
DISSOLVED OXYGEN	-	11.2	8.8	8.4	11	
COLIFORMS (MF/100ML)	120,000	8,300	780,000	142,000	7,100	
5-DAY BOD	9.2	3.5	4.0	24	2.0	
TOTAL SOLIDS	1,208	724	766	702	706	
SUSPENDED SOLIDS	938	40	89	74	14	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	
TURBIDITY (UNITS)	150	2.8	27	31	-	
PHOSPHORUS	(TOTAL	-	0.60	1.92	0.56	0.64
	(SOLUBLE	-	0.56	0.74	0.11	0.56
NITROGENS	(FREE AMMONIA	-	0.10	0.32	0.07	0.16
	(TOTAL KJELDAHL	-	0.78	1.30	1.3	0.52
	(NITRITE	-	0.03	0.4	TR	0.05
	(NITRATE	-	-	0.6	TR	1.20
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	-	65	60	64	60	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	
YEARLY FLOW (CFS)		AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

FRENCHMAN'S CREEK

WATER QUALITY MONITORING

STATION: FR-0.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT NIAGARA BLVD.,
TWP. OF BERTIE

DATE COLLECTED	10.29.64	2.4.65	5.19.65	7.7.65	7.27.65	8.26.65
TEMPERATURE °C	11	.25	8	22	26.5	25
DISSOLVED OXYGEN	11.4	10.8	12.0	10.2	13.6	23
COLIFORMS (MF/100ML)	4,100	6,300	216	550	40,000	30
5-DAY BOD	2.0	3.7	2.7	2.6	0.8	1.6
TOTAL SOLIDS	844	666	210	294	374	860
SUSPENDED SOLIDS	-	17	50	43	5	16
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	29	7	2.0	11.0	4.0	-
PHOSPHORUS (TOTAL)	.20	.38	0.10	0.32	0.16	0.12
(SOLUBLE)	.04	-	0.04	0.10	0.15	0.02
(FREE AMMONIA)	0.0	0.3	0.06	0.20	0.08	TR
NITROGENS (TOTAL KJELDAHL)	1.7	0.9	0.40	2.2	0.39	0.40
(NITRITE)	TR	TR	TR	TR	TR	0.0
(NITRATE)	0.0	0.7	TR	0.0	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	26	28	34	54
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

G A G E C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: GE-0.3

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

LOCATION: Hwy 2 BRIDGE

DATE COLLECTED	12.3.64	6.15.65	7.6.65	7.27.65	8.17.65	9.14.65
TEMPERATURE °C	.5	15	25	20.5	25.5	18
DISSOLVED OXYGEN	12.6	11.4	9.8	11.6	7	10
COLIFORMS (MF/100ML)	400	132	1,500	1,200	630	4,000
5-DAY BOD	0.9	1.0	1.6	1.1	2.5	0.7
TOTAL SOLIDS	324	248	210	192	184	258
SUSPENDED SOLIDS	-	6	1	15	2	9
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	9.5	4.5	3.6	3.1	-	-
PHOSPHORUS	(TOTAL	0.10	-	-	0.20	0.16
	(SOLUBLE	0.04	-	-	0.08	0.12
NITROGENS	(FREE AMMONIA	0.1	0.58	0.16	0.03	0.05
	(TOTAL KJELDAHL	0.3	0.84	0.40	1.1	0.52
	(NITRITE	TR	TR	TR	0.0	0.00
	(NITRATE	0.3	0.0	0.0	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	5	4	5	6	4
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between;"> AVERAGE MAXIMUM MINIMUM </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GANANOQUE RIVER

WATER QUALITY MONITORING

STATION: G-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 2 BRIDGE

DATE COLLECTED	11.30.64	6.18.65	7.8.65	7.28.65	8.18.65	9.15.65
TEMPERATURE °C	1	18	23	24	25	18.5
DISSOLVED OXYGEN	15.6	9.2	9.0	8.8	8	9.0
COLIFORMS (MF/100ML)	330	78	56	28	4,000	560
5-DAY BOD	2.2	1.4	0.8	3.1	1.8	0.4
TOTAL SOLIDS	176	154	170	-	144	166
SUSPENDED SOLIDS	9	1	1	1	3	2
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.7	1.1	1.1	1.4	1.8	3.8
PHOSPHORUS (TOTAL)	0.16	-	0.56	0.20	0.24	0.28
(SOLUBLE)	0.03	-	0.16	-	0.12	0.24
(FREE AMMONIA)	0.1	0.05	0.13	0.16	0.03	0.06
NITROGENS (TOTAL KJELDAHL)	0.7	0.71	0.58	0.84	0.98	0.84
(NITRITE)	TR	TR	TR	TR	TR	TR
(NITRATE)	0	-	TR	0.0	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	8	11	11	8	19
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between;"> AVERAGE - MAXIMUM - MINIMUM - </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GANARASKA RIVER

WATER QUALITY MONITORING

STATION: G-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: PETER STREET BRIDGE
(PORT HOPE)

DATE COLLECTED	12.3.64	6.15.65	7.6.65	7.27.65	8.17.65	9.14.65	
TEMPERATURE °C	2	15	22	20.5	23.0	17.0	
DISSOLVED OXYGEN	13.2	10.6	9.0	11.6	11	13.0	
COLIFORMS (MF/100ML)	1,400	236	3,900	23,000	24,000	80,000	
5-DAY BOD	2.0	6.6	1.4	7.4	-	6.4	
TOTAL SOLIDS	290	234	258	188	236	234	
SUSPENDED SOLIDS	-	18	9	21	20	35	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	3.1	5.0	2.1	6.5	-	3.8	
PHOSPHORUS	(TOTAL	0.04	-	0.80	0.20	-	0.52
	(SOLUBLE	0.02	-	-	0.08	-	0.36
NITROGENS	(FREE AMMONIA	0.3	TR	0.05	0.06	0.03	0.05
	(TOTAL KJELDAHL	0.4	0.71	0.33	1.2	0.20	0.40
	(NITRITE	TR	TR	TR	TR	0.00	TR
	(NITRATE	0.25	0.0	0.0	0.0	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	
CHLORIDES	-	11	4	5	4	4	
IRON	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	
PH	-	-	-	-	-	-	
DAILY FLOW (CFS)	55	46.0	41.0	42.2	39.8	43.5	
YEARLY FLOW (CFS)	AVERAGE 109		MAXIMUM 1,590		MINIMUM 36.0		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAHAM CREEK

WATER QUALITY MONITORING

STATION: GRH-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: UPSTREAM FROM L.
ONTARIO.

DATE COLLECTED	12.3.64	1.21.65	2.19.65	3.25.65	6.18.65	7.6.65	7.27.65	8.17.65
TEMPERATURE °C	1	1	1	0.5	18	21	17.5	21.0
DISSOLVED OXYGEN	12.4	12.2	12.8	13.0	7.3	10.8	8.6	6
COLIFORMS (MF/100ML)	90	56	10	48	280	600	70	80
5-DAY BOD	1.1	2.1	2.6	3.1	2.4	1.2	2.4	7.6
TOTAL SOLIDS	340	352	244	292	242	216	236	442
SUSPENDED SOLIDS	-	-	6	30	-	18	45	64
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	2.3	1.7	-	5	9.0	9.5	13.5	22
PHOSPHORUS	(TOTAL	0.04	-	-	-	-	0.68	0.76
	(SOLUBLE	0.02	-	-	-	-	0.44	0.04
NITROGENS	(FREE AMMONIA	0.1	0.1	0.1	0.20	.26	0.32	0.16
	(TOTAL KJELDAHL	0.3	0.4	0.6	0.43	1.10	0.71	0.84
	(NITRITE	0.0	TR	TR	TR	TR	TR	0.00
	(NITRATE	0.3	0.8	0.5	0.56	0.0	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	9	14	19	18
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

STATION: G-0.4L

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT RYMER RD. (PT.
MAITLAND) L. SIDE

DATE COLLECTED	10.30.64	5.19.65	7.7.65	7.27.65	8.26.65
TEMPERATURE °C	11.5	18.0	22.5	23.4	22.5
DISSOLVED OXYGEN	12.0	11.4	8.8	8.6	6
COLIFORMS (MF/100ML)	4,100	580	330,000	500	57,000
5-DAY BOD	2.3	4.7	3.8	2.8	1.6
TOTAL SOLIDS	554	-	602	500	482
SUSPENDED SOLIDS	-	-	33	2	4
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	36	12	23.0	7.5	-
PHOSPHORUS	(TOTAL	2.70	1.08	3.38	5.6
	(SOLUBLE	2.60	0.56	-	5.0
NITROGENS	(FREE AMMONIA	0.1	0.10	0.22	.20
	(TOTAL KJELDAHL	1.7	2.0	1.10	1.00
	(NITRITE	0.02	TR	TR	0.0
	(NITRATE	0.5	-	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	24	36	35	33
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
FLUORIDE	5.0	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)		AVERAGE -		MAXIMUM -	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: G-0.4CT

LOCATION: AT RYMER ROAD (PT.
MAITLAND) CENTRE TOP

DATE COLLECTED	10.30.64	5.19.65	7.7.65	7.27.65	8.26.65
TEMPERATURE °C	11	18.0	23	23.5	22
DISSOLVED OXYGEN	11.6	10.8	9.4	9.0	8
COLIFORMS (MF/100ML)	3,200	9,500	9,700	290	24,000
5-DAY BOD	3.0	4.5	1.0	2.0	2.0
TOTAL SOLIDS	536	-	502	466	484
SUSPENDED SOLIDS	-	-	44	11	16
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	38	30	12.0	9.0	-
PHOSPHORUS	(TOTAL	2.6	1.04	-	5.6
	(SOLUBLE	2.6	0.60	4.88	5.0
NITROGENS	(FREE AMMONIA	0.2	0.13	0.11	.12
	(TOTAL KJELDAHL	3.3	-	2.2	1.1
	(NITRITE	0.02	TR	TR	0.0
	(NITRATE	1.8	-	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	17	36	35	31
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
FLUORIDE	5.0	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: G-0.4 R

LOCATION: AT RYMER ROAD (PT.
MAITLAND) - FACING UPSTREAM

DATE COLLECTED	10.30.64	5.19.65	7.7.65	7.27.65	8.26.65	
TEMPERATURE °C	10.5	18.0	23.0	24.0	22	
DISSOLVED OXYGEN	13.1	13.0	7.2	9.2	7	
COLIFORMS (MF/100ML)	4,800	740	12,000	80,000	34,000	
5-DAY BOD	1.2	6.5	3.2	2.8	1.8	
TOTAL SOLIDS	516	-	520	488	464	
SUSPENDED SOLIDS	-	-	14	34	21	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	
TURBIDITY (UNITS)	34	18	10.5	7.5	-	
PHOSPHORUS	{TOTAL	3.2	-	5.0	6.0	
	{SOLUBLE	2.32	0.72	4.12	-	
NITROGENS	{FREE AMMONIA	0.1	0.10	-	0.16	0.23
	{TOTAL KJELDAHL	1.7	0.77	1.00	1.1	1.10
	{NITRITE	0.02	TR	-	0.0	TR
	{NITRATE	0.5	-	0.0	0.0	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	-	19	36	35	31	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: G-0.4 CB

LOCATION: AT RYMER ROAD (PT.
MAITLAND) CENTRE BOTTOM

DATE COLLECTED	7.7.65	7.27.65	8.26.65
TEMPERATURE °C	23	22.5	22
DISSOLVED OXYGEN	8.0	7.2	7
COLIFORMS (MF/100ML)	7,000	340	52,000
5-DAY BOD	1.8	3.2	2.0
TOTAL SOLIDS	502	480	230
SUSPENDED SOLIDS	44	13	13
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-
TURBIDITY (UNITS)	12.0	7.0	-
PHOSPHORUS { TOTAL	-	5.6	8.0
{ SOLUBLE	4.72	5.0	-
NITROGENS { FREE AMMONIA	0.11	.20	0.26
{ TOTAL KJELDAHL	0.71	0.91	1.10
{ NITRITE	TR	0.0	0.0
{ NITRATE	0.0	0.0	-
PHENOL EQUIVALENTS (PPB)	-	-	-
CHLORIDES	36	35	42
IRON	-	-	-
HARDNESS	-	-	-
ALKALINITY	-	-	-
PH	-	-	-
DAILY FLOW (CFS)	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SUNFISH CREEK

WATER QUALITY MONITORING

STATION: GSU-4.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT MILL ST.
(DUNNVILLE)

DATE COLLECTED	10.30.64	2.4.65	3.4.65	5.19.65	7.7.65	7.27.65	8.28.65
TEMPERATURE °C	17	18	11	28.0	28	22.5	26
DISSOLVED OXYGEN	4.7	4.0	1.2	3.6	0.5	1.2	1.2
COLIFORMS (MF/100ML)	9,000,000	84,000	137,000	P.A. TEST POSITIVE	109,000,000	17,200,000	25,000,000
5-DAY BOD	420	540	72	780	2,000	370	110
TOTAL SOLIDS	3,198	2,922	808	2,308	3,966	568	368
SUSPENDED SOLIDS	-	166	136	306	262	63	42
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	91	130	53	27	120	39.0	-
PHOSPHORUS (TOTAL)	17	-	-	18	72	17.0	3.6
(SOLUBLE)	11	-	-	5	57	11.8	3.1
(FREE AMMONIA)	7.3	-	-	0.8	8.00	16	1.20
NITROGENS (TOTAL KJELDAHL)	20	-	-	30.0	38.6	18	3.30
(NITRITE)	TR	-	-	0.02	TR	0.0	0.0
(NITRATE)	TR	-	-	TR	TR	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	55
CHLORIDES	-	-	-	259	238	10	-
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SENECA CREEK

WATER QUALITY MONITORING

STATION: 6S-30.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT KINCARDINE STREET
(CALEDONIA)

DATE COLLECTED	10.30.64	2.4.65	3.4.65	5.19.65	7.7.65	7.27.65	8.26.65
TEMPERATURE °C	6	0.5	0.5	20	18	20	19
DISSOLVED OXYGEN	3.7	4.8	2	8	9	0.2	4
COLIFORMS (MF/100ML)	110,000	18,100	160,000	54,000	115,000	89,000	23,000
5-DAY BOD	13	69	18	4.0	11	8.2	2.0
TOTAL SOLIDS	2,334	2,174	1,828	2,640	2,640	2,764	2,732
SUSPENDED SOLIDS	-	48	46	610	20	12	8
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	9	30	7.0	5.0	9.5	16.0	-
PHOSPHORUS (TOTAL)	2.2	-	-	1.14	-	2.4	1.48
(SOLUBLE)	2.0	-	-	0.58	-	1.86	1.24
(FREE AMMONIA)	0.3	-	-	0.38	1.00	.36	0.23
NITROGENS (TOTAL KJELDAHL)	6.6	-	-	1.15	3.00	2.8	2.60
(NITRITE)	0.04	-	-	0.0	TR	0.0	TR
(NITRATE)	0.0	-	-	0.0	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	98	140	156	155
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>						

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

STATION: G-54.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: DOWNSTREAM FROM CANADA GLUE
COMPANY, CITY OF BRANTFORD.

DATE COLLECTED	10.5.84	12.15.84	1.28.85	2.22.85	3.22.85	6.22.85	7.19.85	8.4.85	9.21.85
TEMPERATURE °C	12.5	0.5	2	0.2	2.0	24.0	21.5	21.8	25.0
DISSOLVED OXYGEN	-	13.2	12.8	13.0	13.8	11.0	11.4	11.8	9.02
COLIFORMS (MF/100ML)	11,000	64,000	4,300	5,500	940	33,000	2,700	5,100	14,000
5-DAY BOD	5.0	8.7	5.0	3.1	3.9	18	4.4	6.4	7.0
TOTAL SOLIDS	464	456	532	370	428	520	510	376	446
SUSPENDED SOLIDS	33	13	14	8	8	53	45	-	36
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	34	10	5.5	6.0	2.8	6.5	11.5	2.1	13.0
PHOSPHORUS	(TOTAL	-	-	-	-	1.2	1.8	0.96	1.8
	(SOLUBLE	-	-	-	-	0.44	-	0.96	0.7
NITROGENS	(FREE AMMONIA	-	-	-	-	1.15	0.16	0.53	0.33
	(TOTAL KJELDAHL	-	-	-	-	3.10	2.0	1.6	2.70
	(NITRITE	-	-	-	-	0.10	0.10	TR	0.02
	(NITRATE	-	-	-	-	0.0	0.40	-	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	0	44	34	41	40
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	859	1,400	1,300	864	954	608	897	738	599
YEARLY FLOW (CFS)		AVERAGE	-		MAXIMUM	-	MINIMUM	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

N I T H R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

STATION: GN-75.3

LOCATION: AT Hwy 24A BRIDGE

DATE COLLECTED	10.5.64	12.15.64	1.26.65	2.22.65	3.22.65	6.22.65	7.19.65	8.4.65	9.7.65
TEMPERATURE °C	11	0.5	0.5	0.1	1.0	23.5	21.5	21.8	24.0
DISSOLVED OXYGEN	-	13.3	15.0	13.8	13.9	11.0	11.4	11.8	10.0
COLIFORMS (MF/100ML)	6,500	740	2,000	2,300	620	1,900	1,800	13,000	2,900
5-DAY BOD	1.7	3.2	1.8	2.6	2.9	8.6	4.8	1.8	3.2
TOTAL SOLIDS	510	474	544	410	410	548	520	698	548
SUSPENDED SOLIDS	4	35	5	9	11	25	21	266	42
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	5.5	36	2.1	4.0	4.5	4.0	11.0	59	24
PHOSPHORUS	{ TOTAL		-	-	-	0.26	0.36	0.28	0.24
	{ SOLUBLE		-	-	-	0.02	-	0.07	0.04
NITROGENS	{ FREE AMMONIA		-	-	-	0.20	0.05	0.06	.05
	{ TOTAL KJELDAHL		-	-	-	2.2	0.91	0.33	0.40
	{ NITRITE		-	-	-	TR	0.01	TR	TR
	{ NITRATE		-	-	-	0.4	0.20	0.16	0.24
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	14	13	10	10
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	66.9	387	280	236	182	70.2	111	81.4	50.0
YEARLY FLOW (CFS)	AVERAGE		369	MAXIMUM		8,380	MINIMUM		46.1

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BADEN CREEK

WATER QUALITY MONITORING

STATION: GNB-128.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 7 & 8
(BADEN)

DATE COLLECTED	10.5.64	12.15.64	1.26.65	2.22.65	3.22.65	6.22.65	7.19.65	8.4.65	9.7.65
TEMPERATURE °C	9	1	1	0.2	2.0	20.6	18.5	19.4	22
DISSOLVED OXYGEN	5.2	12.0	14.8	12.0	13.0	9.2	11.6	10.2	10
COLIFORMS (MF/100ML)	260	10,700	-	9,700	170	17,000	3,600	33,000	9,000
5-DAY BOD	2.3	2.5	6.0	1.7	2.4	4.0	2.2	1.5	-
TOTAL SOLIDS	338	358	434	328	324	340	376	344	-
SUSPENDED SOLIDS	21	14	98	15	10	73	55	58	-
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	17	10.0	12.0	2.8	2.3	8.0	13.5	23	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	0.80	1.08	0.60	-
(SOLUBLE)	-	-	-	-	-	0.50	-	0.48	-
(FREE AMMONIA)	-	-	-	-	-	0.22	0.10	0.05	-
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	0.71	1.4	0.39	-
(NITRITE)	-	-	-	-	-	0.10	0.04	0.03	-
(NITRATE)	-	-	-	-	-	0.5	0.46	0.38	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	12	11	12	-
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SMITH CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: GNS-159.1
 LOT 9 & 10
 LOCATION: AT SIDE RD. BETWEEN
 CON. 9 & 10 (MILVERTON)

DATE COLLECTED	10.7.64	12.15.64	1.27.65	2.23.65	3.23.65	6.23.65	7.19.65	8.5.65	9.7.65
TEMPERATURE °C	8	0.5	0.2	0.1	1.0	21.5	23.5	19.2	20
DISSOLVED OXYGEN	11.2	11.8	-	10.0	9.2	10.0	13.8	10.8	12
COLIFORMS (MF/100ML)	-	4,200	14,000	960	500	160	600	660	80
5-DAY BOD	1.2	2.3	2.7	1.9	2.6	4.2	4.8	5.8	2.6
TOTAL SOLIDS	344	314	334	300	316	328	310	450	302
SUSPENDED SOLIDS	-	12	12	4	4	34	42	19	30
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	5	29	3.3	1.7	2.3	16.0	31.0	8.5	13.0
PHOSPHORUS	(TOTAL	-	-	-	-	0.38	0.64	4.0	0.20
	SOLUBLE	-	-	-	-	0.10	0.04	2.5	0.12
NITROGENS	(FREE AMMONIA	-	-	-	-	0.05	0.05	3.3	0.10
	TOTAL KJELDAHL	-	-	-	-	1.80	1.9	5.9	1.20
	NITRITE	-	-	-	-	0.04	TR	0.03	0.00
	NITRATE	-	-	-	-	0.0	0.0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	25	26	44	30
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: G-82.8

LOCATION: AT GLENMORRIS BRIDGE

DATE COLLECTED	10.5.64	12.15.64	1.26.65	2.22.65	3.22.65	6.22.65	7.19.65	8.4.65	9.7.65
TEMPERATURE °C	11	0.5	0.5	0.1	.5	25½	21.5	19.9	25
DISSOLVED OXYGEN	-	13.4	15.0	13.6	14.6	18.0	13.2	9.6	9
COLIFORMS (MF/100ML)	7,100	910	2,500	248	480	30	500	1,500	3,000
5-DAY BOD	2.9	5.5	3.0	3.1	3.1	3.8	4.3	2.5	3.2
TOTAL SOLIDS	338	399	428	382	358	356	390	320	370
SUSPENDED SOLIDS	1	17	5	6	2	17	42	32	19
CONDUCTIVITY (µMHOS/CM³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	6.0	16	2.8	2.3	2.8	2.3	9.0	5.0	14.0
PHOSPHORUS	(TOTAL	-	-	-	-	1.24	-	1.0	1.52
	(SOLUBLE	-	-	-	-	1.08	-	0.84	0.88
NITROGENS	(FREE AMMONIA	-	-	-	-	0.10	0.16	0.08	0.12
	(TOTAL KJELDAHL	-	-	-	-	1.0	1.7	0.39	1.10
	(NITRITE	-	-	-	-	0.10	0.04	0.03	0.06
	(NITRATE	-	-	-	-	0.5	0.50	0.50	1.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	38	28	24	28
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

G R A N D R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: G-86.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 24, DOWNSTREAM FROM THE
CITY OF GALT.

DATE COLLECTED	10.5.64	12.15.64	1.26.65	2.22.65	3.22.65	6.22.65	7.19.65	8.4.65	9.7.65
TEMPERATURE °C	11.0	0.5	0.5	0.2	.5	24.5	21.5	20.8	21
DISSOLVED OXYGEN	-	13.4	13.8	13.0	14.0	16.2	11.8	10.8	11
COLIFORMS (MF/100ML)	11,000	15,000	1,200	1,800	370	40	600	1,900	3,000
5-DAY BOD	2.4	7.4	2.8	2.7	3.2	5.6	3.3	2.3	3.2
TOTAL SOLIDS	368	374	456	364	332	370	430	296	370
SUSPENDED SOLIDS	7	23	6	8	2	20	35	21	16
CONDUCTIVITY (MICROS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	8.5	18	2.5	2.6	2.5	2.9	8.0	5.5	9.0
PHOSPHORUS	(TOTAL	-	-	-	-	1.04	1.16	0.81	1.16
	(SOLUBLE	-	-	-	-	0.80	-	0.68	0.08
NITROGENS	(FREE AMMONIA	-	-	-	-	0.11	0.10	0.13	0.13
	(TOTAL KJELDAHL	-	-	-	-	1.0	1.6	0.58	1.20
	(NITRITE	-	-	-	-	0.10	0.04	0.64	0.10
	(NITRATE	-	-	-	-	0.3	0.50	0.54	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	33	32	24	28
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	505	749	859	791	714	486	597	472	432
YEARLY FLOW (CFS)	AVERAGE		1,160	MAXIMUM		16,580	MINIMUM		238

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

STATION: 6-94.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: NEAR THE HAMLET OF BLAIR

DATE COLLECTED	10.5.64	12.15.64	1.26.65	2.22.65	3.22.65	6.22.65	7.19.65	8.4.65	9.7.65
TEMPERATURE °C	11	0.5	1.0	0.1	.5	25.5	21.8	20.2	21
DISSOLVED OXYGEN	-	12.6	14.0	12.8	13.4	19.0	12.2	9.7	12
COLIFORMS (MF/100ML)	57,000	520	1,200	1,150	300	30	1,200	70,000	800
5-DAY BOD	6.3	5.3	2.7	3.0	3.7	3.4	5.6	2.8	2.7
TOTAL SOLIDS	360	378	500	372	348	280	414	314	306
SUSPENDED SOLIDS	12	19	5	18	3	11	34	24	7
CONDUCTIVITY (MHOS/CM. ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	10	18	2.5	6.0	2.6	1.1	7.5	7.5	10
PHOSPHORUS	(TOTAL	-	-	-	-	0.66	1.5	0.56	0.60
	(SOLUBLE	-	-	-	-	0.56	-	0.38	0.52
NITROGENS	(FREE AMMONIA	-	-	-	-	0.20	0.38	0.20	0.13
	(TOTAL KJELDAHL	-	-	-	-	0.84	2.2	0.84	1.00
	(NITRITE	-	-	-	-	0.2	0.13	0.05	0.06
	(NITRATE	-	-	-	-	0.4	0.46	0.30	0.40
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	27	23	16	15
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE			MAXIMUM		MINIMUM			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SPEED

RIVER

WATER QUALITY MONITORING

STATION: GS-96.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY. 24 (BEAVERDALE
BRIDGE)

DATE COLLECTED	10.5.64	12.15.64	1.26.65	2.22.65	3.22.65	6.22.65	7.19.65	8.4.65	9.7.65
TEMPERATURE °C	12.5	1.0	1.5	0.2	1.0	22.5	22.0	20.0	25.0
DISSOLVED OXYGEN	-	12.2	12.6	12.8	13.8	12.0	12.2	12.8	8.0
COLIFORMS (MF/100ML)	48,000	89,000	12,000,000	610,000	3,500	140	1,100	1,100	25,000
5-DAY BOD	1.2	6.7	15.0	29.0	8.2	11.0	8.0	5.3	6.8
TOTAL SOLIDS	578	392	612	426	358	436	468	488	568
SUSPENDED SOLIDS	7	8	23	14	6	26	29	-	9
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	8.0	16.0	4.0	10.0	3.5	5.5	8.0	3.1	9.0
PHOSPHORUS (TOTAL)	-	-	-	-	-	3.04	2.8	2.5	3.44
(SOLUBLE)	-	-	-	-	-	2.5	2.6	1.8	2.56
(FREE AMMONIA)	-	-	-	-	-	0.26	0.36	0.59	0.53
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	1.80	2.3	0.98	2.10
(NITRITE)	-	-	-	-	-	0.20	0.08	0.06	0.10
(NITRATE)	-	-	-	-	-	0.5	0.46	-	0.55
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	62	61	67	98
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	44.5	66.0	125.0	123.0	135.0	52.0	113.0	42.0	52.0
YEARLY FLOW (CFS)	AVERAGE		201	MAXIMUM	2,760	MINIMUM		12.2	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

STATION: 6-110.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGEPORT BRIDGE

DATE COLLECTED	10.5.64	12.15.64	1.26.65	2.22.65	3.22.65	6.22.65	7.19.65	8.4.65	9.7.65
TEMPERATURE °C	10.0	0.25	0.25	0.2	1.0	23.5	22.4	21.8	20.5
DISSOLVED OXYGEN	-	12.8	13.2	13.0	13.8	15.2	13.0	14.2	12.0
COLIFORMS (MF/100ML)	240	1,500	11,000	100	36	0	210	37,000	70
5-DAY BOD	1.5	3.0	2.4	1.7	3.8	1.9	2.0	0.4	1.4
TOTAL SOLIDS	262	346	448	304	300	392	407	292	262
SUSPENDED SOLIDS	3	9	11	8	3	8	12	20	14
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	5.0	9.0	4.5	-	2.8	1.5	5.5	7.0	8.0
PHOSPHORUS (TOTAL)	-	-	-	0.18	-	0.10	0.28	0.72	0.24
(SOLUBLE)	-	-	-	-	-	0.02	-	0.66	0.0
(FREE AMMONIA)	-	-	-	0.5	-	0.13	0.13	0.08	0.05
NITROGENS (TOTAL KJELDAHL)	-	-	-	1.3	-	0.65	1.1	0.20	1.00
(NITRITE)	-	-	-	-	-	Tr	0.01	0.03	0.01
(NITRATE)	-	-	-	1.0	-	0.15	0.25	0.30	Tr
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	9	13	12	8
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CONESTOGO RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: GC0-139.6

LOCATION: OUTLET OF CONESTOGO
LAKE

DATE COLLECTED	5.18.65	7.2.65	7.22.65	8.4.65	9.21.65
TEMPERATURE °C	-	20.5	21.0	21.0	21.0
DISSOLVED OXYGEN	-	11.0	8.8	5.6	8.0
COLIFORMS (MF/100ML)	-	12	110	56	300
5-DAY BOD	-	0.5	1.1	3.7	3.8
TOTAL SOLIDS	284	248	212	230	280
SUSPENDED SOLIDS	-	9	4	12	97
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	-	3.1	6.0	9.5	-
PHOSPHORUS (TOTAL)	0.14	0.12	-	0.16	8.0
(SOLUBLE)	-	-	-	-	3.0
(FREE AMMONIA)	0.65	0.14	0.05	0.03	0.05
NITROGENS (TOTAL KJELDAHL)	0.06	0.65	0.84	0.98	1.30
(NITRITE)	0.02	0.02	TR	TR	TR
(NITRATE)	0.6	0.44	0.42	0.30	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	15	-	282	-	8
IRON	0.58	-	-	-	-
HARDNESS	220	-	-	-	-
ALKALINITY	181	-	-	-	-
PH	8.4	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRAND RIVER

WATER QUALITY MONITORING

STATION: 6-141.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: OUTLET OF BELWOOD
LAKE

DATE COLLECTED	5.18.65	7.2.65	7.22.65	8.4.65	9.22.65
TEMPERATURE °C	-	21.0	20.8	20.0	19.5
DISSOLVED OXYGEN	-	10.2	8.4	7.0	8.0
COLIFORMS (MF/100ML)	-	10	30	8	1,000
5-DAY BOD	-	0.8	1.3	2.2	2.1
TOTAL SOLIDS	214	244	232	220	262
SUSPENDED SOLIDS	-	6	2	8	16
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	-	1.8	4.0	5.0	34
PHOSPHORUS (TOTAL)	0.12	-	0.20	0.16	1.0
(SOLUBLE)	-	-	-	-	0.3
(FREE AMMONIA)	0.65	0.16	0.16	0.01	0.30
(TOTAL KJELDAHL)	0.06	0.71	1.30	0.71	1.00
NITROGENS (NITRITE)	TR	TR	TR	0.01	TR
(NITRATE)	0.24	0.14	0.00	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	10	-	290	-	7
IRON	0.38	-	-	-	-
HARDNESS	186	-	-	-	-
ALKALINITY	159	-	-	-	-
PH	8.2	-	-	-	-

DAILY FLOW (CFS) 263 219 168 188 191

YEARLY FLOW (CFS) AVERAGE 262 MAXIMUM 2,590 MINIMUM 78.2

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRINDSTONE

CREEK

WATER QUALITY MONITORING

STATION: G-4.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BRIDGE ON WATERDOWN RD.
VILLAGE OF WATERDOWN

DATE COLLECTED	10.28.64	11.26.64	2.3.65	3.3.65	5.12.65	7.5.65	7.9.65	7.19.65	7.29.65
TEMPERATURE °C	11.50	5.0	0.5	1.0	18.0	-	21.5	-	16.2
DISSOLVED OXYGEN	10.4	12.0	13.2	13.4	9.6	-	8.0	-	9.2
COLIFORMS (MF/100ML)	80,000	48,000	60,000	9,200	39,000	17,400	110,000	95,000	120,000
5-DAY BOD	1.5	4.6	3.4	3.9	1.2	1.5	2.8	3.2	3.2
TOTAL SOLIDS	456	486	468	486	386	478	474	556	434
SUSPENDED SOLIDS	-	78	10	22	20	11	7	470	13
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	2.1	45.0	6.5	8.0	8.5	-	4.0	360	6.5
PHOSPHORUS (TOTAL)	0.60	0.84	-	-	0.34	-	0.92	1.0	0.48
(SOLUBLE)	0.38	0.26	-	-	0.12	-	0.98	1.0	0.28
(FREE AMMONIA)	0.28	0.20	-	-	0.15	0.22	TR	0.16	0.26
NITROGENS (TOTAL KJELDAHL)	1.3	1.5	-	-	1.10	0.84	0.46	1.10	1.1
(NITRITE)	0.02	0.01	-	-	0.02	0.03	0.04	0.03	0.02
(NITRATE)	0.75	1.0	-	-	-	-	1.0	0.54	0.92
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	30	34	40	37	32
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-	-	-	-
	AVERAGE			MAXIMUM		MINIMUM			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRINDSTONE CREEK

WATER QUALITY MONITORING

STATION: G-4.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BRIDGE ON WATERDOWN ROAD,
VILLAGE OF WATERDOWN

DATE COLLECTED	8.3.65	8.16.65	8.19.65	8.31.65	9.14.65	9.28.65	
TEMPERATURE °C	-	-	21.5	-	15	9	
DISSOLVED OXYGEN	-	-	8	-	9	10	
COLIFORMS (MF/100ML)	140,000	219,000	280,000	75,000	56,000	239,000	
5-DAY BOD	3.4	2.4	8.8	1.6	2.2	1.2	
TOTAL SOLIDS	584	404	626	376	434	446	
SUSPENDED SOLIDS	119	13	223	17	13	3	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	71	6.0	-	21	21	5.5	
PHOSPHORUS	(TOTAL	0.72	0.32	1.16	0.64	0.96	0.84
	(SOLUBLE	0.08	0.50	0.32	0.52	0.84	0.52
NITROGENS	(FREE AMMONIA	TR	1.2	0.08	0.30	0.23	0.23
	(TOTAL KJELDAHL	0.98	1.5	0.98	0.71	0.84	0.53
	(NITRITE	0.03	0.04	0.03	0.02	0.04	0.04
	(NITRATE	0.5	0.25	0.45	1.25	1.30	0.50
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	
CHLORIDES	98	38	90	30	30	31	
IRON	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	
PH	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRINDSTONE CREEK

WATER QUALITY MONITORING

STATION: G-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 2
BRIDGE

DATE COLLECTED	10.28.64	11.26.64	2.3.65	3.3.65	5.13.65	7.5.65	7.9.65
TEMPERATURE °C	12	8	0.5	0.5	18	-	21
DISSOLVED OXYGEN	12.1	11.3	12.6	12.4	11.2	-	10.2
COLIFORMS (MF/100ML)	120	80,000	630	4,300	2,900	600	100,000
5-DAY BOD	0.8	4.2	3.0	2.6	2.1	6.4	1.2
TOTAL SOLIDS	468	478	492	530	420	610	628
SUSPENDED SOLIDS	-	54	15	71	17	182	18
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	3.8	24	9.0	30	6.0	95.0	4.0
PHOSPHORUS (TOTAL)	.18	.6	.3	.44	0.18	0.88	0.32
(SOLUBLE)	.14	.4	-	.36	0.06	-	0.28
(FREE AMMONIA)	0.08	.2	0.6	0.4	0.17	0.08	0.20
NITROGENS (TOTAL KJELDAHL)	.52	1.7	1.0	1.7	1.2	1.8	1.00
(NITRITE)	0.02	0.01	TR	0.01	TR	0.10	TR
(NITRATE)	1.0	.8	.7	.6	-	-	0.25
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	53	208
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	4.7	22.5	5	9	16.0	1.5	3.1
YEARLY FLOW (CFS)	AVERAGE 26.5		MAXIMUM 295		MINIMUM 0.3		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

GRINDSTONE CREEK

WATER QUALITY MONITORING

STATION: G-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 2
BRIDGE

DATE COLLECTED	7.19.65	7.28.65	8.3.65	8.16.65	8.31.65	9.14.65	9.28.65
TEMPERATURE °C	-	17	-	-	15	18	10
DISSOLVED OXYGEN	-	11.8	-	-	7	9	14
COLIFORMS (MF/100ML)	800	112,000	210,000	4,000	1,000	270	630
5-DAY BOD	3.2	2.0	3.4	5.6	3.8	2.8	2.0
TOTAL SOLIDS	556	1,374	584	514	378	216	422
SUSPENDED SOLIDS	108	12	119	150	46	30	23
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	68.0	8.0	71	108	32	24	11.0
PHOSPHORUS	(TOTAL	0.44	-	0.72	1.36	0.60	0.20
	(SOLUBLE	-	-	0.08	0.12	0.12	0.28
NITROGENS	(FREE AMMONIA	0.13	0.05	TR	0.12	0.12	TR
	(TOTAL KJELDAHL	0.98	0.26	0.98	1.2	1.10	0.71
	(NITRITE	0.04	TR	0.03	0.01	0.02	0.02
	(NITRATE	0.44	0.0	0.50	TR	0.5	0.50
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	63	268	48	48	33	46	45
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	2.6	1.2	8.2	1.8	3.9	3.1	2.6
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

HARMONY CREEK

WATER QUALITY MONITORING

STATION: H-1,2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE ON Hwy 401

DATE COLLECTED	12.3.64	1.21.65	2.19.65	3.25.65	6.18.65	7.6.65	7.26.65	8.17.65	
TEMPERATURE °C	1	1	1	1	17.5	24	17.5	22.5	
DISSOLVED OXYGEN	14.5	14.8	15.1	14.5	10.1	10.6	10.8	6	
COLIFORMS (MF/100ML)	122	78	40	600	400	174	250	178	
5-DAY BOD	1.7	1.5	2.8	2.8	0.6	1.2	1.0	1.4	
TOTAL SOLIDS	382	384	274	318	304	314	240	238	
SUSPENDED SOLIDS	-	-	1	6	3	46	12	2	
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	1.1	1.4	-	2.3	2.9	3.6	10.0	26	
PHOSPHORUS	(TOTAL	0.08	.48	-	0.1	-	0.10	0.40	0.24
	(SOLUBLE	0.02	0.0	-	-	-	0.04	0.04	0.04
NITROGENS	(FREE AMMONIA	0.1	0.1	0.2	0.20	0.05	0.08	0.02	0.06
	(TOTAL KJELDAHL	0.2	0.3	0.5	0.43	0.60	2.4	0.52	0.33
	(NITRITE	0.0	TR	TR	0.01	TR	TR	TR	TR
	(NITRATE	0.4	1.0	0.7	0.56	TR	0.0	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	10	8	10	9	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

HICKORY CREEK

WATER QUALITY MONITORING

STATION: H-5.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 1ST CONC. DOWNSTREAM
FROM TOWN OF FOREST

DATE COLLECTED	10.6.64	1.27.65	6.22.65	7.19.65	8.11.65	9.20.65
TEMPERATURE °C	10.5	0.25	22.5	22	24	21.2
DISSOLVED OXYGEN	14.2	13.1	5.2	6.8	6.6	9.0
COLIFORMS (MF/100ML)	300	44,000	-	1,000	250,000	200
5-DAY BOD	2.4	4.5	5.8	3.4	2.8	3.2
TOTAL SOLIDS	684	242	750	738	626	513
SUSPENDED SOLIDS	8	24	141	200	95	36
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	12.5	8.0	68.0	100.0	75	34
PHOSPHORUS	(TOTAL	-	3.0	3.8	5.0	3.5
	(SOLUBLE	-	2.7	2.4	3.0	3.1
NITROGENS	(FREE AMMONIA	-	0.32	0.13	0.20	0.20
	(TOTAL KJELDAHL	-	2.0	2.0	1.2	1.70
	(NITRITE	-	TR	TR	0.05	TR
	(NITRATE	-	TR	TR	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	108	105	101	82
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-
				MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

HIGHLAND CREEK

WATER QUALITY MONITORING

STATION: H-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BELOW S.T.P. OUTFALL
DOWNSTREAM FROM HIGHLAND CREEK

DATE COLLECTED	12.3.64	1.21.65	2.18.65	3.25.65	6.18.65	7.6.65	7.26.65	8.16.65	9.28.65
TEMPERATURE °C	1.0	6.0	2.0	3.0	16.0	17.0	20.2	19.0	-
DISSOLVED OXYGEN	12.8	9.2	13.9	10.6	9.7	9.6	10.2	-	-
COLIFORMS (MF/100ML)	73,000	20	420	7,000	5,900	0	82	176	12
5-DAY BOD	4.5	21.0	3.0	4.2	2.1	2.2	6.4	6.8	5.8
TOTAL SOLIDS	1,064	808	644	1,492	538	624	648	586	562
SUSPENDED SOLIDS	-	-	-	18	-	37	14	25	36
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	20.0	18.0	-	11.0	9.0	10.0	14.0	9.0	-
PHOSPHORUS (TOTAL)	0.62	32.0	-	0.24	-	-	9.5	7.0	-
(SOLUBLE)	0.17	30.0	-	0.12	-	-	9.0	7.0	-
NITROGENS (FREE AMMONIA)	0.10	18.0	0.5	1.08	0.83	8.32	9.0	9.0	-
(TOTAL KJELDAHL)	1.5	24.0	1.1	1.10	1.7	9.70	15.0	11.0	-
(NITRITE)	0.01	0.25	0.02	0.01	0.02	0.03	0.8	0.2	-
(NITRATE)	0.25	0.70	0.60	0.34	0.15	Tr	0.60	0.60	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	2.0	-
CHLORIDES	-	-	-	-	107	-	-	115	-
IRON	-	-	-	-	-	-	-	0.8	-
HARDNESS	250	-	-	364	310	-	252	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	9.0	8.0	11.0	14.2	16.4	8.8	7.4	7.4	8.4
YEARLY FLOW (CFS)	AVERAGE		24.7	MAXIMUM		628	MINIMUM		6.0

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

HOLLAND RIVER

WATER QUALITY MONITORING

STATION: H0-12.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HERALD RD. DOWNSTREAM
FROM THE TOWN OF NEWMARKET

DATE COLLECTED	10. 1.64	12.2.64	1.22.65	2.19.65	3.19.65	5.14.65	6.17.65	7.9.65	7.29.65	8.18.65
TEMPERATURE °C	12.0	0	3	3	5	14.5	17.5	22.5	19.5	20.0
DISSOLVED OXYGEN	6.4	13.5	10.6	10.2	8.4	12.4	7.6	4.6	4.8	3.2
COLIFORMS (MF/100ML)	48,000	670	34,000	41,000	180,000	57,000	65,000	23,000	2,800	9,000
5-DAY BOD	2.7	5.8	7.6	4.8	8.8	7.4	15.0	15.0	6.4	13.0
TOTAL SOLIDS	504	-	686	404	504	512	640	654	446	572
SUSPENDED SOLIDS	-	17	13	9	22	10	16	25	5	2
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	11.5	6.5	4.5	3.1	7.0	-	7.0	4.0	4.0	5.5
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	8.0	5.0	6.0	6.8
(SOLUBLE)	-	-	-	-	-	-	8.0	3.2	5.0	5.0
(FREE AMMONIA)	-	-	-	-	-	1.97	8.00	5.3	3.3	4.9
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	3.20	12.0	6.0	4.8	7.7
(NITRITE)	-	-	-	-	-	0.06	0.14	0.1	0.20	0.80
(NITRATE)	-	-	-	-	-	0.20	0.12	0.5	0.5	0.45
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	135	99	85	150
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>									

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

HOLLAND RIVER

WATER QUALITY MONITORING

STATION: HOA-19.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 11,

DATE COLLECTED	10.1.64	12.2.64	1.22.65	2.19.65	3.19.65	5.14.65	6.17.65	7.9.65	7.29.65	8.18.65
TEMPERATURE °C	16.0	5.5	5.0	4.0	5.0	16.0	19.0	22.5	18.5	19.0
DISSOLVED OXYGEN	1.8	4.8	8.0	8.4	7.9	8.4	4.7	5.4	2.0	1.2
COLIFORMS (MF/100ML)	91,000	1,000	120	1,270	5,000	5,000,000	230,000	12,400	134,000	109,000
5-DAY BOD	38	16	20	18	34	24	63	14	24	40
TOTAL SOLIDS	866	-	974	1,790	664	808	1,038	588	954	846
SUSPENDED SOLIDS	-	44	68	70	55	52	76	39	35	51
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	40.0	24.0	39.0	31.0	32.0	-	30.0	11.5	21.0	40.0
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	11.2	8.8	9.0	5.6
(SOLUBLE)	-	-	-	-	-	-	11.0	7.0	2.0	4.0
(FREE AMMONIA)	-	-	-	-	-	8.20	14.8	9.6	18.0	16.0
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	15.0	61.8	12.0	20.0	21.0
(NITRITE)	-	-	-	-	-	TR	0.11	TR	0.12	0.02
(NITRATE)	-	-	-	-	-	0.0	0.0	TR	0.00	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	268.0	122.0	294.0	220.0
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>-</div> <div>MAXIMUM</div> <div>-</div> <div>MINIMUM</div> <div>-</div> </div>									

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

HUMBER RIVER

WATER QUALITY MONITORING

STATION: H-0.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT LAKESHORE ROAD,
VILLAGE OF SWANSEA

DATE COLLECTED	10.28.64	11.23.64	4.22.65	5.13.65	7.9.65	7.29.65	8.18.65		
TEMPERATURE °C	11	1.0	-	15.5	22.0	16	22		
DISSOLVED OXYGEN	11.8	13.3	-	7.4	9.0	7.6	9.0		
COLIFORMS (MF/100ML)	5,900	490	2,100	8,000	8,200	8,000	6		
5-DAY BOD	2.6	3.5	3.0	2.2	3.0	2.4	4.8		
TOTAL SOLIDS	424	654	662	408	390	312	432		
SUSPENDED SOLIDS	-	-	210	42	68	33	57		
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-		
TURBIDITY (UNITS)	24	18	45	10	77.0	13.5	65		
PHOSPHORUS	(TOTAL	.5	3.0	1.0	0.36	0.54	0.28	0.70	
	(SOLUBLE	.40	.50	0.18	0.14	0.44	-	0.60	
NITROGENS	(FREE AMMONIA	.19	.5	0.45	0.30	0.14	0.23	0.23	
	(TOTAL KJELDAHL	.46	.9	1.70	0.91	0.84	0.71	1.1	
	(NITRITE	.01	.01	0.01	TR	0.03	0.05	0.02	
	(NITRATE	TR	TR	0.54	-	0.25	0.0	0.00	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-		
CHLORIDES	-	-	52	40	3	49	135		
IRON	-	-	-	-	-	-	-		
HARDNESS	-	-	-	-	-	-	-		
ALKALINITY	-	-	-	-	-	-	-		
PH	-	-	-	-	-	-	-		
DAILY FLOW (CFS)	42.6	44	-	220	57.4	28.0	33.6		
YEARLY FLOW (CFS)	AVERAGE		178	MAXIMUM		7,220	MINIMUM		22.4

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

HUMBER RIVER

WATER QUALITY MONITORING

STATION: H-16.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 7

DATE COLLECTED	10.16.64	11.23.64	12.14.64	1.19.65	3.16.64	5.17.65	7.20.65	8.25.65
TEMPERATURE °C	9.5	.5	1.0	.25	2	16.5	17.5	20.0
DISSOLVED OXYGEN	11.8	14.2	15.3	12.0	15.0	9.2	11.0	9.5
COLIFORMS (MF/100ML)	550	310	450	168	1,430	510	900	800
5-DAY BOD	0.8	2.4	2.3	3.3	2.8	1.4	3.6	1.6
TOTAL SOLIDS	296	338	340	404	320	324	332	314
SUSPENDED SOLIDS	-	-	32	9	54	16	58	43
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	13.5	11.5	23	4.0	20	4.0	31.0	-
PHOSPHORUS	(TOTAL	-	-	-	-	0.14	-	0.28
	(SOLUBLE	-	-	-	-	0.04	-	0.20
NITROGENS	(FREE AMMONIA	-	-	-	-	0.02	0.05	0.05
	(TOTAL KJELDAHL	-	-	-	-	0.71	0.98	0.13
	(NITRITE	-	-	-	-	TR	TR	TR
	(NITRATE	-	-	-	-	-	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	17	14	12
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	32.3	41.6	49	45	65	55.0	28.7	23.6
YEARLY FLOW (CFS)	AVERAGE 79.9		MAXIMUM 2,500		MINIMUM 17.3			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

H U M B E R R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: H-32.6

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

LOCATION: YORK - PEEL COUNTY LINE

DATE COLLECTED	10.16.64	11.23.64	12.14.64	1.19.65	3.16.65	5.17.65	7.20.65	8.25.65
TEMPERATURE °C	10	0.5	0.5	0.25	3.5	15.5	17.5	19.0
DISSOLVED OXYGEN	11.2	14.1	14.2	10.6	12.8	10.2	10.2	9.0
COLIFORMS (MF/100ML)	81,000	16,000	40,000	21,000	350	19,000	50,000	890
5-DAY BOD	1.5	2.8	2.4	3.8	3.6	1.7	2.3	2.4
TOTAL SOLIDS	274	318	312	362	264	-	324	286
SUSPENDED SOLIDS	-	-	18	11	15	26	18	28
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	9.0	5.0	5.5	4.0	5.5	6.5	13.5	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	0.20	-	0.36
PHOSPHORUS (SOLUBLE)	-	-	-	-	-	0.10	-	0.24
NITROGENS	(FREE AMMONIA)	-	-	-	-	0.06	0.12	0.06
	(TOTAL KJELDAHL)	-	-	-	-	0.71	0.71	0.33
	(NITRITE)	-	-	-	-	TR	0.01	0.10
	(NITRATE)	-	-	-	-	-	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	13	-	10
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

KETTLE CREEK

WATER QUALITY MONITORING

STATION: K-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE STREET
VILLAGE OF PT. STANLEY

DATE COLLECTED	10.5.64	12.4.64	6.15.65	6.24.65	7.6.65	7.21.65	8.12.65	8.27.65
TEMPERATURE °C	14	-	-	23	17.4	22	19	21.5
DISSOLVED OXYGEN	8.2	-	-	10.0	8.6	10.2	10	8
COLIFORMS (MF/100ML)	16,000	3,000	-	7,000	140,000	560,000	14,000	12,000
5-DAY BOD	2.2	6.0	4.6	2.0	0.6	3.4	4.4	2.9
TOTAL SOLIDS	272	454	310	320	276	302	318	290
SUSPENDED SOLIDS	37	39	33	54	47	23	58	33
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	48	34	-	10.0	40.0	13.0	24	-
PHOSPHORUS (TOTAL)	.68	4.0	-	1.12	0.70	1.04	1.12	1.08
(SOLUBLE)	.68	3.7	-	0.96	-	0.80	0.64	0.96
(FREE AMMONIA)	.13	3.3	-	0.30	0.11	0.19	0.03	0.05
NITROGENS (TOTAL KJELDAHL)	.58	3.5	-	1.20	0.28	1.10	0.71	0.46
(NITRITE)	.01	0.04	-	0.02	TR	0.02	0.02	TR
(NITRATE)	.30	0.7	-	-	TR	0.2	0.00	0.10
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	45	-	30	28	30	28	30
IRON	-	1.3	-	-	-	-	-	-
HARDNESS	-	310	-	-	-	-	-	-
ALKALINITY	-	250	-	-	-	-	-	-
PH	-	7.9	-	-	-	-	-	-
ANIONIC DET. ABS.	-	1.35	0.3	-	-	-	-	-
DAILY FLOW (CFS)	10.7	10.3	-	8.9	9.6	6.44	7.7	8.0
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

KETTLE CREEK

WATER QUALITY MONITORING

STATION: K-11.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT THE RAILWAY TRESTLE
BELOW WPCP

DATE COLLECTED	10.5.64	1.27.65	6.15.65	6.24.65	7.6.65	7.21.65	8.12.65	8.27.65
TEMPERATURE °C	14.0	0.5	24.0	22.5	19.7	24.0	21.0	21.5
DISSOLVED OXYGEN	3.2	12.2	16.2	6.8	4.6	16.2	11.6	5.0
COLIFORMS (MF/100ML)	4,100,000	60,000	-	960,000	183,000	12,000	610,000	970,000
5-DAY BOD	12.0	4.2	9.2	9.0	10.0	3.8	5.6	15.0
TOTAL SOLIDS	606	366	480	418	522	408	500	362
SUSPENDED SOLIDS	21	52	24	29	36	54	17	64
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	37.0	9.0	-	9.0	7.5	11.0	7.5	-
PHOSPHORUS (TOTAL)	17.3	-	-	7.6	-	1.0	7.5	6.2
(SOLUBLE)	16.4	-	-	6.8	-	0.70	2.7	3.6
(FREE AMMONIA)	15.6	-	-	6.4	10.7	0.03	9.9	3.7
NITROGENS (TOTAL KJELDAHL)	22.0	-	-	8.1	11.0	1.0	10.0	6.8
(NITRITE)	0.15	-	-	0.04	0.10	0.0	0.30	0.06
(NITRATE)	2.0	-	-	0.5	0.70	0.0	2.0	1.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	12
CHLORIDES	-	-	-	66	81	61	73	50
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
ABS	-	-	2.3	2.3	-	-	-	1.4
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

LITTLE CATARAQUI RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: LC-0.0

LOCATION: AT KING ST. CITY OF KINGSTON

DATE COLLECTED	6.15.65	7.8.65	7.28.65	8.18.65	9.15.65
TEMPERATURE °C	19	19.5	20	23.0	17.0
DISSOLVED OXYGEN	12.9	9.5	9.8	7.0	7.0
COLIFORMS (MF/100ML)	30	12	10	10	280
5-DAY BOD	7.0	-	4.1	1.5	5.8
TOTAL SOLIDS	380	250	226	216	240
SUSPENDED SOLIDS	54	18	10	15	21
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	11.5	7.5	4.0	4.5	10.0
PHOSPHORUS	(TOTAL	0.86	0.20	0.32	0.32
	(SOLUBLE	0.42	0.14	0.24	0.16
NITROGENS	(FREE AMMONIA	0.64	0.35	0.33	0.60
	(TOTAL KJELDAHL	1.20	1.65	1.2	1.80
	(NITRITE	TR	TR	TR	TR
	(NITRATE	TR	0.0	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	41	28	30	34	28
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

LITTLE RIVER

WATER QUALITY MONITORING

STATION: L-0.1 T

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT RIVERSIDE DR. (TOP)

DATE COLLECTED	10.5.64	12.3.64	1.28.65	3.19.65	6.23.65	7.20.65	8.11.65	9.22.65
TEMPERATURE °C	14.0	0.5	1.5	2.5	22.8	23.0	20.5	23.5
DISSOLVED OXYGEN	0.0	2.8	9.6	11.0	14.2	12.0	12.0	6.0
COLIFORMS (MF/100ML)	51,000,000	910,000	13,200	38,000	610,000	3,100	490,000	690
5-DAY BOD	108.0	8.4	1.9	4.6	3.9	7.2	14.0	5.6
TOTAL SOLIDS	516	192	528	448	508	296	508	276
SUSPENDED SOLIDS	60	27	30	52	128	58	58	24
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	42.0	20.0	11.0	24.0	24.0	23.0	42.0	10.0
PHOSPHORUS (TOTAL)	54.0	2.5	-	2.3	38	16.5	30.0	31.0
(SOLUBLE)	50.0	2.5	-	-	38	14.0	27.0	27.0
(FREE AMMONIA)	28.8	2.3	-	0.86	11.5	7.4	20.0	6.56
NITROGENS (TOTAL KJELDAHL)	31.0	3.0	-	2.0	20.0	4.1	22.0	8.40
(NITRITE)	TR	TR	-	0.035	TR	0.02	0.03	0.90
(NITRATE)	0.0	0.0	-	3.0	TR	TR	TR	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	25	-	-	62	33	130	48
IRON	-	0.90	-	-	-	-	-	-
HARDNESS	-	390	-	-	-	-	-	-
ALKALINITY	-	96	-	-	-	-	-	-
PH	-	7.6	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

L I T T L E R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: L-0.1 B

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: RIVERSIDE RD. (BOTTOM)

DATE COLLECTED	10.7.64	12.2.64	1.28.65	3.18.65	7.20.65	8.11.65	9.22.65	
TEMPERATURE °C	13.8	5.0	1.0	3.0	22.8	20.0	23.1	
DISSOLVED OXYGEN	0.0	0.6	9.8	11.0	12.2	9.0	7.0	
COLIFORMS (MF/100ML)	-	-	820,000	78,000	3,500	340,000	-	
5-DAY BOD	90.0	270.0	3.8	6.2	7.6	13.0	66.0	
TOTAL SOLIDS	522	2,706	494	476	410	532	762	
SUSPENDED SOLIDS	88	270	28	60	86	64	518	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	29	130	20	21	27	48	39	
PHOSPHORUS	(TOTAL	44.0	26.0	-	2.8	13.0	30.0	11.4
	(SOLUBLE	42.0	26.0	-	-	12.0	29.0	9.4
NITROGENS	(FREE AMMONIA	24.6	2.3	-	0.96	4.1	21.0	2.30
	(TOTAL KJELDAHL	31.0	31.0	-	2.2	8.6	38.0	8.30
	(NITRITE	TR	0.0	-	0.025	0.02	TR	0.05
	(NITRATE	0.0	0.0	-	2.6	TR	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	145	-	-	51	107	26	
IRON	-	3.4	-	-	-	-	-	
HARDNESS	-	280	-	-	-	-	-	
ALKALINITY	-	260	-	-	-	-	-	
PH	-	7.0	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM	-	MINIMUM		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

LUCKNOW RIVER

WATER QUALITY MONITORING

STATION: L-0.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT DAM AT PT. ALBERT.

DATE COLLECTED	10.7.64	12.15.64	1.28.65	2.23.65	3.23.65	6.23.65	7.20.65	8.5.65	9.21.65
TEMPERATURE °C	8.5	0.5	0.0	0.1	1.6	22.0	23.5	24.0	25.0
DISSOLVED OXYGEN	12.0	13.4	12.5	15.0	14.4	10.2	9.6	4.8	9.0
COLIFORMS (MF/100ML)	-	590	30,000	980	184	126	34	52	110
5-DAY BOD	1.2	2.6	1.1	2.2	2.9	1.8	1.0	0.3	1.0
TOTAL SOLIDS	376	344	322	320	342	334	280	270	300
SUSPENDED SOLIDS	-	30	6	-	7	10	6	11	15
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.4	11.5	-	-	2.1	2.6	5.0	7.5	11.0
PHOSPHORUS	TOTAL	.36	.16	0.1	0.08	0.04	0.08	0.06	0.20
	SOLUBLE	.12	.05	0.0	0.06	-	0.04	0.02	0.04
NITROGENS	FREE AMMONIA	0.0	0.1	0.1	TR	0.06	TR	.05	0.03
	TOTAL KJELDAHL	0.2	0.7	0.3	0.3	0.2	0.26	0.58	0.26
	NITRITE	0.0	TR	TR	TR	TR	TR	TR	TR
	NITRATE	TR	1.5	0.8	0.8	0.56	0.2	0.2	0.15
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	17	20	16	16
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)		AVERAGE	-		MAXIMUM	-		MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

LUCKNOW RIVER

WATER QUALITY MONITORING

STATION: L-16.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT CANNING ST.
VILLAGE OF LUCKNOW

DATE COLLECTED	10.8.64	12.17.64	1.28.65	2.23.65	3.23.65	6.23.65	7.20.65	8.6.65	9.21.65
TEMPERATURE °C	8.0	0.5	0.0	0.1	1.0	21.5	22.0	21.0	23.0
DISSOLVED OXYGEN	12.8	13.0	12.5	12.8	13.8	9.6	12.8	4.8	9.0
COLIFORMS (MF/100ML)	239	247,000	300,000	19,700	5,400	7,300	2,500	3,900	26,000
5-DAY BOD	1.0	4.6	1.9	2.1	2.6	2.0	1.6	1.0	1.1
TOTAL SOLIDS	284	362	354	322	372	404	300	368	360
SUSPENDED SOLIDS	-	6	6	4	2	10	2	4	14
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.7	4.0	2.8	1.7	2.1	9.0	2.6	1.7	8.0
PHOSPHORUS (TOTAL)	-	-	-	-	-	0.16	0.18	0.70	0.08
(SOLUBLE)	-	-	-	-	-	-	0.08	0.60	0.04
(FREE AMMONIA)	-	-	-	-	-	TR	0.11	0.08	0.12
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	0.33	0.58	0.20	0.71
(NITRITE)	-	-	-	-	-	0.01	TR	TR	TR
(NITRATE)	-	-	-	-	-	0.15	0.15	0.25	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	28	20	22	22
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

LYNDE CREEK

WATER QUALITY MONITORING

STATION: LY-0.9

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BASELINE RD.
(WHITBY TWP.)

DATE COLLECTED	12.3.64	1.21.65	2.18.65	3.25.65	6.18.65	7.6.65	7.26.65	8.17.65	
TEMPERATURE °C	1	-	1	2	18	20.5	24.5	21.5	
DISSOLVED OXYGEN	11.4	-	10.8	10.0	8.7	8.0	11.0	6.8	
COLIFORMS (MF/100ML)	210	90	800	170	320	1,400	40	160	
5-DAY BOD	2.1	2.0	7.2	3.5	2.0	2.2	5.2	1.6	
TOTAL SOLIDS	448	576	2,200	386	282	356	386	316	
SUSPENDED SOLIDS	-	-	1,574	28	-	16	16	15	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	8.0	1.7	-	6	7.5	23.0	10.0	-	
PHOSPHORUS (TOTAL	0.04	0.16	6	0.20	-	-	0.64	-	
(SOLUBLE	0.03	0.0	0.3	-	-	-	0.08	0.00	
(FREE AMMONIA	0.1	0.2	0.4	0.32	0.13	0.16	0.07	0.12	
(TOTAL KJELDAHL	0.4	0.5	3.3	0.80	0.84	0.84	6.8	0.58	
NITROGENS (NITRITE	TR	TR	TR	0.02	TR	-	TR	TR	
(NITRATE	TR	0.55	TR	0.44	0.0	0.0	9	0.00	
PHENOL EQUIVALENTS (PPB)	-	4	8	8	-	-	2	2	
CHLORIDES	-	-	23	-	32	22	32	30	
IRON	-	0.62	-	0.69	1.2	1.3	0.70	0.90	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	10	6.6	22	17	3.7	30.6	6.6	4.8	
YEARLY FLOW (CFS)	AVERAGE		24.8	MAXIMUM		649	MINIMUM		3.7

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

LYNN RIVER

WATER QUALITY MONITORING

STATION: L-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy. 6 BRIDGE

DATE COLLECTED	10.5.64	11.30.64	1.26.65	5.19.65	7.7.65	7.26.65	8.26.65		
TEMPERATURE °C	13.0	2.0	1.5	18.0	21.0	23.8	22.0		
DISSOLVED OXYGEN	8.4	12.2	11.2	7.8	4.8	5.6	7.0		
COLIFORMS (MF/100ML)	22,000	730	53,000	18,000	17,000	4,800	26,000		
5-DAY BOD	3.3	3.2	7.9	4.2	2.2	5.6	3.4		
TOTAL SOLIDS	354	384	1,184	350	-	262	340		
SUSPENDED SOLIDS	16	6	23	32	-	22	21		
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-		
TURBIDITY (UNITS)	-	7.0	9.0	7.0	4.0	8.5	-		
PHOSPHORUS	(TOTAL	0.50	0.54	0.68	-	-	0.56	0.60	
	(SOLUBLE	0.32	0.36	0.42	-	-	0.22	0.20	
NITROGENS	(FREE AMMONIA	0.14	0.2	0.3	0.40	0.70	0.33	0.56	
	(TOTAL KJELDAHL	0.98	1.1	1.0	1.2	0.40	1.1	1.10	
	(NITRITE	0.03	Tr	0.02	0.1	0.03	0.01	0.02	
	(NITRATE	0.55	10.0	0.8	0.4	-	13.0	0.20	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-		
CHLORIDES	-	34	-	18	21	24	21		
IRON	-	0.40	-	-	-	-	-		
HARDNESS	-	278	-	-	-	-	-		
ALKALINITY	-	202	-	-	-	-	-		
PH	-	8.0	-	-	-	-	-		
DAILY FLOW (CFS)	26.6	10.0	71.0	32.9	21.0	24.0	10.2		
YEARLY FLOW (CFS)	AVERAGE		57.0	MAXIMUM		1,350	MINIMUM		3.8

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: M-1.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE ON Hwy. No. 21

DATE COLLECTED	10.5.64	10.7.64	10.19.64	11.2.64	11.14.64	11.30.64	12.14.64
TEMPERATURE °C	-	8.5	-	-	-	-	-
DISSOLVED OXYGEN	-	12.0	-	-	-	-	-
COLIFORMS (MF/100ML)	100	-	88	88	370	500	780
5-DAY BOD	0.7	1.7	0.4	0.3	1.5	0.7	2.4
TOTAL SOLIDS	1,212	1,210	744	870	1,056	508	478
SUSPENDED SOLIDS	7	-	1	2	-	10	7
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	2.9	-	-	4.0	-	-
PHOSPHORUS (TOTAL)	-	.36	-	-	-	-	-
PHOSPHORUS (SOLUBLE)	-	0.08	-	-	-	-	-
NITROGENS	(FREE AMMONIA	-	0.0	-	-	-	-
	(TOTAL KJELDAHL	-	0.26	-	-	-	-
	(NITRITE	-	0.0	-	-	-	-
	(NITRATE	-	0.0	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	540	-	226	272	390	73	100
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)		AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: M-1.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE ON HWY. NO. 21

DATE COLLECTED	12.16.64	12.30.64	1.11.65	1.25.65	2.8.65	2.22.65	3.8.65
TEMPERATURE °C	0.5	-	-	-	-	-	-
DISSOLVED OXYGEN	13.6	-	-	-	-	-	-
COLIFORMS (MF/100ML)	1,400	1,200	1,900	560	590	68	510
5-DAY BOD	2.6	2.3	2.2	2.3	1.5	-	2.2
TOTAL SOLIDS	362	554	402	482	392	-	274
SUSPENDED SOLIDS	6	8	16	31	6	-	29
CONDUCTIVITY (MICROS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	5.5	-	38	-	-	-	-
PHOSPHORUS	{ TOTAL	-	-	-	-	-	-
	{ SOLUBLE	-	-	-	-	-	-
NITROGENS	{ FREE AMMONIA	-	-	-	-	-	-
	{ TOTAL KJELDAHL	-	-	-	-	-	-
	{ NITRITE	-	-	-	-	-	-
	{ NITRATE	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	36	38	-	26
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)		AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND

RIVER

WATER QUALITY MONITORING

STATION: M-1.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 21 GODERICH

DATE COLLECTED	3.22.85	3.23.85	4.5.85	4.20.85	5.3.85	5.31.85	6.14.85	6.23.85
TEMPERATURE °C	-	.5	-	-	-	-	-	23.0
DISSOLVED OXYGEN	-	14.0	-	-	-	-	-	11.4
COLIFORMS (MF/100ML)	**	28	60	340	98	510	138	118
5-DAY BOD	2.3	2.2	1.6	2.0	1.5	1.4	2.3	2.0
TOTAL SOLIDS	364	356	408	510	412	1,552	382	**
SUSPENDED SOLIDS	7	3	2	6	1	13	1	**
CONDUCTIVITY (UMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	1.2	-	-	-	-	-	2.6
PHOSPHORUS	{ TOTAL		-	-	-	-	-	0.06
	{ SOLUBLE		-	-	-	-	-	-
NITROGENS	{ FREE AMMONIA		-	-	-	-	-	TR
	{ TOTAL KJELDAHL		-	-	-	-	-	0.26
	{ NITRITE		-	-	-	-	-	TR
	{ NITRATE		-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	36	-	-	-	-	696	79	40
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-		MAXIMUM	-	MINIMUM	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND

RIVER

WATER QUALITY MONITORING

STATION: M-1.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY. 21 GODERICH

DATE COLLECTED	6.28.65	7.12.65	7.20.65	7.28.65	8.5.65	8.8.65	8.28.65	9.7.65	9.21.65	9.22.65
TEMPERATURE °C	-	-	22.5	-	24.5	-	-	-	25.0	-
DISSOLVED OXYGEN	-	-	12.4	-	4.4	-	-	-	10.0	-
COLIFORMS (MF/100ML)	38	1,200	206	-	158	10,000	-	1,890	230	500
5-DAY BOD	2.3	1.5	1.5	2.1	1.2	1.0	2.4	1.1	0.8	1.0
TOTAL SOLIDS	484	556	558	794	368	622	712	968	568	824
SUSPENDED SOLIDS	15	6	1	7	9	22	29	1	2	9
CONDUCTIVITY (MICROS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	2.8	-	2.6	-	-	-	2.6	-
PHOSPHORUS	(TOTAL		0.18	-	0.30	-	-	-	0.16	-
	(SOLUBLE		0.06	-	0.30	-	-	-	0.04	-
NITROGENS	(FREE AMMONIA		0.10	-	0.06	-	-	-	0.10	-
	(TOTAL KJELDAHL		0.71	-	0.58	-	-	-	0.60	-
	(NITRITE		TR	-	0.00	-	-	-	TR	-
	(NITRATE		0.0	-	-	-	-	-	**	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	94	164	185	288	66	163	201	190	162	254
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	97.8	84.0	84.0	-	36.4	178	95.5	36.4	107	-
YEARLY FLOW (CFS)	AVERAGE		863	MAXIMUM		9,550	MINIMUM		36.4	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: M-48.C

LOCATION: AT BRIDGE ON Hwy. 26

DATE COLLECTED	7.30.64	8.10.64	8.24.64	9.8.64	9.21.64	10.5.64	10.19.64	11. 2.64	11.14.64
TEMPERATURE °C	22.0	17.0	19.5	22.0	16.5	10.0	7.0	-	-
DISSOLVED OXYGEN	6.9	8.2	7.5	7.2	7.8	9.8	8.0	-	-
COLIFORMS (MF/100ML)	540	4,300	15,000	12,000	168	110	70	12	90
5-DAY BOD	1.0	0.7	1.9	1.1	1.6	1.6	0.4	1.1	0.9
TOTAL SOLIDS	278	318	350	392	314	352	352	402	410
SUSPENDED SOLIDS	-	2	2	1	-	16	7	3	-
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.5	-	-	-	1.7	-	-	-	2.0
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	-	-	-
(SOLUBLE)	-	-	-	-	-	-	-	-	-
(FREE AMMONIA)	-	-	-	-	-	-	-	-	-
(TOTAL KJELDAHL)	-	-	-	-	-	-	-	-	-
NITROGENS (NITRITE)	-	-	-	-	-	-	-	-	-
(NITRATE)	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	15	15	19	18
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	30.0	353	36.8	27.4	78.0	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		762	MAXIMUM		10,800	MINIMUM		27.4

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: M.48.C

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE ON HWY. 26

DATE COLLECTED	11.30.64	12.14.64	12.30.64	1.11.65	1.25.65
TEMPERATURE °C	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-
COLIFORMS (MF/100ML)	450	700	600	3,100	130
5-DAY BOD	1.3	1.9	1.8	1.5	2.3
TOTAL SOLIDS	420	346	346	332	394
SUSPENDED SOLIDS	9	6	2	6	8
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-
(SOLUBLE)	-	-	-	-	-
(FREE AMMONIA)	-	-	-	-	-
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-
(NITRITE)	-	-	-	-	-
(NITRATE)	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	22	25	-	9	12
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MINIMUM	
			MAXIMUM		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: M-48.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE ON HWY 26

DATE COLLECTED	2.8.65	2.22.65	3.8.65	3.22.65	4.5.65	4.20.65	5.31.65	6.14.65	6.28.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	910	900	242	212	490	300	110	90	38
5-DAY BOD	1.9	1.7	2.3	2.1	1.8	1.3	2.2	1.2	1.1
TOTAL SOLIDS	368	408	204	386	369	294	278	260	288
SUSPENDED SOLIDS	1	15	7	10	1	6	1	1	5
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-
PHOSPHORUS	(TOTAL								
	SOLUBLE								
NITROGENS	(FREE AMMONIA								
	(TOTAL KJELDAHL								
	NITRITE								
	NITRATE								
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	16	-	11	12	-	-	14	14	15
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE - MAXIMUM - MINIMUM -								

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: M-48.0

LOCATION: AT BRIDGE ON Hwy. 28

DATE COLLECTED	7.12.65	7.26.65	8.9.65	8.23.65	9.7.65	9.22.65
TEMPERATURE °C	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-
COLIFORMS (MF/100ML)	94	-	1,600	-	44	10,000
5-DAY BOD	1.2	0.7	0.8	1.3	1.5	1.3
TOTAL SOLIDS	300	278	234	288	318	314
SUSPENDED SOLIDS	13	3	3	4	3	6
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	-
(SOLUBLE)	-	-	-	-	-	-
(FREE AMMONIA)	-	-	-	-	-	-
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	-
(NITRITE)	-	-	-	-	-	-
(NITRATE)	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	14	18	16	16	15	20
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND

RIVER

WATER QUALITY MONITORING

STATION: MM-69.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: DOWNSTREAM OF CREAMERY
VILLAGE OF BRUSSELS

DATE COLLECTED	1.25.65	2.8.65	2.22.65	3.8.65	3.22.65	4.5.65
TEMPERATURE °C	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-
COLIFORMS (MF/100ML)	1,200	520	212	620	540	530
5-DAY BOD	2.8	2.3		2.8	2.4	2.8
TOTAL SOLIDS	458	406	B	175	358	398
SUSPENDED SOLIDS	18	1	R	7	1	2
CONDUCTIVITY (μ MHOS/CM ³)	-	-	0	-	-	-
TURBIDITY (UNITS)	-	-	K	-	-	-
PHOSPHORUS	(TOTAL SOLUBLE)	-	E N	-	-	-
NITROGENS	(FREE AMMONIA	-	I	-	-	-
	(TOTAL KJELDAHL	-	N	-	-	-
	(NITRITE	-	T	-	-	-
	(NITRATE	-	R	-	-	-
			A			
PHENOL EQUIVALENTS (PPB)	-	-	N	-	-	-
CHLORIDES	-	-	S	-	-	-
IRON	-	-	I	-	-	-
HARDNESS	-	-	T	-	-	-
ALKALINITY	-	-		-	-	-
PH	-	-		-	-	-
DAILY FLOW (CFS)	-	-		-	-	-
YEARLY FLOW (CFS)		AVERAGE	-	MAXIMUM	-	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: M4. 69.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: DOWNSTREAM OF CREAMERY
VILLAGE OF BRUSSELS

DATE COLLECTED	4.20.65	5.3.65	5.31.65	6.14.65	6.26.65	7.12.65	7.26.65	8.9.65	8.23.65	9.7.65	9.22.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	580	68	114	1,100	700	1,400	-	53,000	-	1,300	430
5-DAY BOD	1.9	1.1	2.1	1.4	1.5	1.5	0.8	2.7	1.5	1.6	6.0
TOTAL SOLIDS	314	368	326	360	320	544	294	376	412	404	410
SUSPENDED SOLIDS	9	4	6	3	5	4	2	9	8	4	15
CONDUCTIVITY (UMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-	-	-	-
{ TOTAL KJELDAML	-	-	-	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>										

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: MM-69.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT TURNBERRY ST., VILLAGE OF BRUSSELS

DATE COLLECTED	7.30.64	8.10.64	8.24.64	9.8.64	9.21.64
TEMPERATURE °C	21	18.0	19.0	19	15
DISSOLVED OXYGEN	7.6	8.0	8.2	9.7	9.3
COLIFORMS (MF/100ML)	9,000	124	520	400	3,900
5-DAY BOD	2.3	1.0	-	2.7	1.3
TOTAL SOLIDS	332	358	-	460	374
SUSPENDED SOLIDS	-	2	-	29	-
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	1.7	-	-	-	2.1

PHOSPHORUS { TOTAL
SOLUBLE

NITROGENS { FREE AMMONIA
TOTAL KJELDAHL
NITRITE
NITRATE

SAMPLES EXHAUSTED, TESTS COULD NOT BE PERFORMED

PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	-	-	-	-
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)		AVERAGE		MAXIMUM	
		-		-	MINIMUM
					-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: MM-89.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT TURNBERRY ST., VILLAGE OF BRUSSELS

DATE COLLECTED	10.5.64	10.19.64	11.2.64	11.14.64	11.30.64	12.14.64	12.30.64	1.11.65	
TEMPERATURE °C	9.0	7.0	-	-	-	-	-	-	
DISSOLVED OXYGEN	11.5	10.2	-	-	-	-	-	-	
COLIFORMS (MF/100ML)	1,780	BROKEN IN TRANSIT	22	188	430	1,070	1,400	35,000	
5-DAY BOD	0.7	2.2	1.0	1.5	2.8	2.0	2.3	5.4	
TOTAL SOLIDS	392	442	486	536	480	378	400	400	
SUSPENDED SOLIDS	3	5	5	-	10	5	6	17	
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	-	-	-	2.3	-	-	-	-	
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	-	-	
PHOSPHORUS (SOLUBLE)	-	-	-	-	-	-	-	-	
NITROGENS	(FREE AMMONIA	-	-	-	-	-	-	-	
	(TOTAL KJELDAHL	-	-	-	-	-	-	-	
	(NITRITE	-	-	-	-	-	-	-	
	(NITRATE	-	-	-	-	-	-	-	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	-	-	-	-	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: MW-87.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: MIDDLE MAITLAND AT
TROWBRIDGE

DATE COLLECTED	10.5.64	10.19.64	11.2.64	11.4.64	11.30.64	12.14.64	12.30.64	1.11.65	1.25.65
TEMPERATURE °C	7.0	8.5	-	-	-	-	-	-	-
DISSOLVED OXYGEN	09.7	07.8	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	8,000	6,000	200	2,020	24,000	12,000	4,500	6,300	8,300
5-DAY BOD	9.2	13	12	32	4.7	3.8	2.2	2.1	1.9
TOTAL SOLIDS	640	638	576	648	472	406	378	352	690
SUSPENDED SOLIDS	17	16	19	-	14	35	14	13	6
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	40	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: MM-27.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: MIDDLE MAITLAND AT
TROWBRIDGE

DATE COLLECTED	2.8.65	2.22.65	3.8.65	3.22.65	4.5.65	4.20.65	5.3.65	5.31.65	6.14.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	9,300	5,800	1,800	2,400	530	680	800	40,000	600
5-DAY BOD	3.6	-	2.2	2.1	1.9	2.8	1.6	5.4	2.8
TOTAL SOLIDS	284	-	220	438	452	300	326	476	422
SUSPENDED SOLIDS	4	-	8	77	3	7	5	7	8
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-
PHOSPHORUS	(TOTAL	-	-	-	-	-	-	-	-
	(SOLUBLE	-	-	-	-	-	-	-	-
NITROGENS	(FREE AMMONIA	-	-	-	-	-	-	-	-
	(TOTAL KJELDAHL	-	-	-	-	-	-	-	-
	(NITRITE	-	-	-	-	-	-	-	-
	(NITRATE	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	9.6	94.0	22.0	4.2	1.5
YEARLY FLOW (CFS)	AVERAGE			MAXIMUM		MINIMUM			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: MM-87.8

LOCATION: MIDDLE MAITLAND
AT TROWBRIDGE

DATE COLLECTED	6.28.65	7.12.65	7.26.65	8.9.65	9.7.65	9.21.65	9.22.65
TEMPERATURE °C	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	***	108	-	6,900	140	440	40,000
5-DAY BOD	1.2	3.8	3.4	2.4	7.6	-	7.4
TOTAL SOLIDS	638	404	532	342	678	-	484
SUSPENDED SOLIDS	22	15	11	5	33	-	17
CONDUCTIVITY (UMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-
PHOSPHORUS	(TOTAL	-	-	-	-	-	-
	(SOLUBLE	-	-	-	-	-	-
NITROGENS	(FREE AMMONIA	-	-	-	-	-	-
	(TOTAL KJELDAHL	-	-	-	-	-	-
	(NITRITE	-	-	-	-	-	-
	(NITRATE	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	0.7	2.6	-	116	1.1	-	12.8
YEARLY FLOW (CFS)	AVERAGE	39.1	MAXIMUM	765	MINIMUM	0.4	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BLYTH BROOK

WATER QUALITY MONITORING

STATION: MB-31.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BLYTH BROOK AT SIDE ROAD
1 1/4 MILES W. OF BLYTH

DATE COLLECTED	7.30.64	8.10.64	8.24.64	9.8.64	9.21.64
TEMPERATURE °C	21	15.0	18.0	20	15
DISSOLVED OXYGEN	5.4	3.1	9.3	10.3	6.9
COLIFORMS (MF/100ML)	500	400	19,000	460	3,200
5-DAY BOD	3.5	2.4	0.7	2.6	1.8
TOTAL SOLIDS	378	392	436	452	332
SUSPENDED SOLIDS	-	1	2	2	-
CONDUCTIVITY (MHOS/ CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	2.3	-	-	-	1.4
PHOSPHORUS { TOTAL	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-
{ NITRITE	-	-	-	-	-
{ NITRATE	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	-	-	-	-
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

B L Y T H B R O O K

WATER QUALITY MONITORING

STATION: MB-31,3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BLYTH BROOK AT SIDE RD.
1 1/4 MILES W. OF BLYTH

DATE COLLECTED	10.5.64	10.19.64	11.2.64	11.14.64	11.30.64	12.14.64	12.30.64	1.11.65	1.25.65
TEMPERATURE °C	8.5	6.5	-	-	-	-	-	-	-
DISSOLVED OXYGEN	10.1	8.2	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	27,000	530	26	1,500	14,000	13,000	4,800	2,700	5,700
5-DAY BOD	0.7	0.4	0.5	1.0	0.9	1.6	2.1	1.3	1.8
TOTAL SOLIDS	478	436	454	448	472	370	352	342	310
SUSPENDED SOLIDS	11	6	1	-	4	7	3	3	5
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	1.3	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE			MAXIMUM		MINIMUM			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

B L Y T H B R O O K

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: MB-31.3

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

LOCATION: BLYTH BROOK AT SIDE RD.
1 1/4 MILES W. OF BLYTH

DATE COLLECTED	2.8.65	2.22.65	3.8.65	3.22.65	4.5.65	4.20.65	5.3.65	5.31.65	6.14.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	1,270	3,900	178	1,900	1,000	540	160	296	92
5-DAY BOD	2.4	2.8	1.4	1.8	1.5	1.2	1.3	2.2	1.1
TOTAL SOLIDS	318	458	218	324	348	278	302	286	276
SUSPENDED SOLIDS	6	68	5	3	2	1	1	3	1
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BLYTH BROOK

WATER QUALITY MONITORING

STATION: MB-31.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BLYTH BROOK AT SIDE ROAD
1 1/4 MILES WEST OF BLYTH

DATE COLLECTED	6.28.65	7.12.65	7.26.65	8.9.65	8.23.65	9.7.65	9.22.65		
TEMPERATURE °C	-	-	-	-	-	-	-		
DISSOLVED OXYGEN	-	-	-	-	-	-	-		
COLIFORMS (MF/100ML)	300	1,000	-	350	-	236	1,400		
5-DAY BOD	2.9	0.5	1.5	1.1	1.6	1.5	0.9		
TOTAL SOLIDS	270	302	266	284	308	320	336		
SUSPENDED SOLIDS	3	3	3	9	7	6	1		
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-		
TURBIDITY (UNITS)	-	-	-	-	-	-	-		
PHOSPHORUS	{ TOTAL	-	-	-	-	-	-		
	{ SOLUBLE	-	-	-	-	-	-		
NITROGENS	{ FREE AMMONIA	-	-	-	-	-	-		
	{ TOTAL KJELDAHL	-	-	-	-	-	-		
	{ NITRITE	-	-	-	-	-	-		
	{ NITRATE	-	-	-	-	-	-		
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-		
CHLORIDES	-	-	-	-	-	-	-		
IRON	-	-	-	-	-	-	-		
HARDNESS	-	-	-	-	-	-	-		
ALKALINITY	-	-	-	-	-	-	-		
PH	-	-	-	-	-	-	-		
DAILY FLOW (CFS)	-	-	-	-	-	-	-		
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: M - 83.9

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY. 87 DOWNSTREAM FROM HARRISTON

DATE COLLECTED	7.30.64	8.10.64	8.24.64	9.8.64	9.21.64
TEMPERATURE °C	18	16.0	17.0	17	16
DISSOLVED OXYGEN	3.2	6.9	8.1	6.0	6.3
COLIFORMS (MF/100ML)	22,000	1,080	1,070	1,500	27,000,000
5-DAY BOD	2.3	1.8	0.9	1.8	16
TOTAL SOLIDS	438	562	394	434	506
SUSPENDED SOLIDS	--	1	2	1	--
CONDUCTIVITY (MICROS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	2.8	-	-	-	34
PHOSPHORUS { TOTAL	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-
{ NITRITE	-	-	-	-	-
{ NITRATE	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	-	-	-	-
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM	
				MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: M - 83.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY. 87 DOWNSTREAM FROM HARRISTO

DATE COLLECTED	10.5.64	10.19.64	11.2.64	11.14.64	11.30.64	12.14.64	12.30.64	1.11.65	1.25.65	2.8.65	2.22.65	3.8.65
TEMPERATURE °C	7.5	8.0	-	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	9.2	9.6	-	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	9,000	3,300	500	3,700	15,000	1,180	-	9,700	5,000	6,200	5,400	1,900
5-DAY BOD	1.1	2.1	1.0	1.8	1.5	2.2	2.1	1.8	2.1	4.1	0.8	1.9
TOTAL SOLIDS	410	460	446	456	442	386	389	358	466	346	398	214
SUSPENDED SOLIDS	4	4	13	-	14	24	8	4	6	3	4	7
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	3.1	-	-	-	-	-	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHORUS (SOLUBLE)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (FREE AMMONIA)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (NITRITE)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (NITRATE)	-	-	-	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE			-	MAXIMUM			-	MINIMUM			-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

STATION: MH-83,8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy. 37 DOWNSTREAM
FROM HARRISTON

DATE COLLECTED	3.22.65	4.5.65	4.20.65	5.3.65	5.31.65	6.14.65
TEMPERATURE °C	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-
COLIFORMS (MF/100ML)	7,000	830	13,000	280,000	10,000	7,700
5-DAY BOD	2.5	4.1	2.0	6.1	1.7	3.3
TOTAL SOLIDS	363	334	280	334	324	396
SUSPENDED SOLIDS	4	5	3	9	2	4
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between; align-items: center;"> AVERAGE - MAXIMUM - MINIMUM - </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

M A I T L A N D R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

S T A T I O N : M H - 8 3 , 8

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

L O C A T I O N : A T H W Y 8 7 D O W N S T R E A M
F R O M H A R R I S T O N

D A T E C O L L E C T E D	6.28.65	7.12.65	7.26.65	8.9.65	8.23.65	9.7.65	9.22.65
T E M P E R A T U R E ° C	-	-	-	-	-	-	-
D I S S O L V E D O X Y G E N	-	-	-	-	-	-	-
C O L I F O R M S (M F / 1 0 0 M L)	2,100	410	-	3,400	-	9,000	-
5 - D A Y B O D	2.6	2.4	2.8	3.2	9.0	8.0	4.0
T O T A L S O L I D S	316	238	308	376	512	428	386
S U S P E N D E D S O L I D S	21	4	12	33	17	11	12
C O N D U C T I V I T Y (μ M H O S / C M ³)	-	-	-	-	-	-	-
T U R B I D I T Y (U N I T S)	-	-	-	-	-	-	-
P H O S P H O R U S {	T O T A L	-	-	-	-	-	-
	S O L U B L E	-	-	-	-	-	-
N I T R O G E N S {	F R E E A M M O N I A	-	-	-	-	-	-
	T O T A L K J E L D A H L	-	-	-	-	-	-
	N I T R I T E	-	-	-	-	-	-
	N I T R A T E	-	-	-	-	-	-
P H E N O L E Q U I V A L E N T S (P P B)	-	-	-	-	-	-	-
C H L O R I D E S	-	-	-	-	-	-	-
I R O N	-	-	-	-	-	-	-
H A R D N E S S	-	-	-	-	-	-	-
A L K A L I N I T Y	-	-	-	-	-	-	-
P H	-	-	-	-	-	-	-
D A I L Y F L O W (C F S)	-	-	-	-	-	-	-
Y E A R L Y F L O W (C F S)	A V E R A G E	-		M A X I M U M	-	M I N I M U M	-

R E S U L T S I N P A R T S P E R M I L L I O N (P P M) E X C E P T W H E R E O T H E R W I S E N O T E D .

BOYLE DRAIN

WATER QUALITY MONITORING

STATION: MMB - 88.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 23

DATE COLLECTED	7.30.64	8.10.64	8.24.64	9.8.64	9.21.64	10.5.64	10.19.64	11.2.64	11.14.64	11.30.64	12.14.64	12.30.64
TEMPERATURE °C	17	15	16.5	18.5	-	6.5	7.5	-	-	-	-	-
DISSOLVED OXYGEN	4.1	6.1	7.1	5.8	-	8.6	6.2	-	-	-	-	-
COLIFORMS (MF/100ML)	800	610	940	7,000	400	120	190	80	1,200	16,000	930	2,800
5-DAY BOD	4.6	1.6	1.0	1.6	2.2	1.5	1.8	2.8	1.6	0.9	2.0	0.9
TOTAL SOLIDS	518	410	400	456	514	416	462	486	490	1,406	398	450
SUSPENDED SOLIDS	-	20	10	24	46	22	30	34	-	15	17	7
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	2.3	-	-	-	-	-	-	-	31	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	-	-	-	-	-	-
PHOSPHORUS (SOLUBLE)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (FREE AMMONIA)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (NITRITE)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (NITRATE)	-	-	-	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>											

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BOYLE DRAIN

WATER QUALITY MONITORING

STATION: MMB - 88.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 23

DATE COLLECTED	1.11.65	1.25.65	2.8.65	2.22.65	3.8.65	3.22.65	4.5.65	4.20.65
TEMPERATURE °C	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	12,000	380	7,000	116	550	-	64	250
5-DAY BOD	1.8	2.	3.3	-	3.3	-	2.2	2.0
TOTAL SOLIDS	474	486	346	-	161	-	552	326
SUSPENDED SOLIDS	73	25	7	-	17	-	70	42
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL SOLUBLE	-	-	-	-	-	-	-	-
NITROGENS {	FREE AMMONIA	-	-	-	-	-	-	-
	TOTAL KJELDAHL	-	-	-	-	-	-	-
	NITRITE	-	-	-	-	-	-	-
	NITRATE	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE			-	MAXIMUM			MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BOYLE DRAIN

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: MMB-88.6

LOCATION: BOYLE DRAIN HWY 23
DOWNSTREAM FROM MILVERTON

DATE COLLECTED	5.3.65	5.31.65	6.14.65	6.28.65	7.12.65	7.26.65	8.9.65	8.23.65	9.7.65	9.22.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	200	1,900	1,700	54	108	-	14,000	-	200	12,000
5-DAY BOD	1.5	2.8	1.5	1.5	1.1	1.5	2.0	2.8	1.2	2.0
TOTAL SOLIDS	420	382	314	358	382	332	390	424	408	372
SUSPENDED SOLIDS	13	9	1	5	11	2	23	20	8	15
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-	-	-
SOLUBLE	-	-	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-	-	-
TOTAL KJELDAHL	-	-	-	-	-	-	-	-	-	-
NITRITE	-	-	-	-	-	-	-	-	-	-
NITRATE	-	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -				MAXIMUM -			MINIMUM -		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

WALLACE DRAIN

WATER QUALITY MONITORING

STATION: MMLW - 82.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 23

DATE COLLECTED	7.30.64	8.10.64	8.24.64	9.8.64	9.21.64	10.5.64	10.19.64	11.2.64	11.14.64	11.30.64	12.14.64	12.30.64
TEMPERATURE °C	16	14	16	14	14.5	6.0	6.0	-	-	-	-	-
DISSOLVED OXYGEN	0.7	2.3	4.5	2.6	2.4	3.5	3.9	-	-	-	-	-
COLIFORMS (MF/100ML)	110,000	11,200	580	65,000	4,700	23,000	7,500	5,100	9,600	12,000	42,000	7,600
5-DAY BOD	8.6	3.1	2.4	17	11	7.6	6.3	10	5.2	1.6	1.9	1.4
TOTAL SOLIDS	424	498	502	516	454	464	478	494	482	514	486	454
SUSPENDED SOLIDS	-	1	2	3	1	8	8	14	-	6	4	4
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	3.3	-	-	-	-	-	-	-	4.0	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	-	-	-	-	-	-
(SOLUBLE)	-	-	-	-	-	-	-	-	-	-	-	-
(FREE AMMONIA)	-	-	-	-	-	-	-	-	-	-	-	-
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	-	-	-	-	-	-	-
(NITRITE)	-	-	-	-	-	-	-	-	-	-	-	-
(NITRATE)	-	-	-	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE			-	MAXIMUM			-	MINIMUM			-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

WALLACE DRAIN

WATER QUALITY MONITORING

STATION: MMLW - 82.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 23

DATE COLLECTED	1.11.65	1.25.65	2.8.65	2.22.65	3.8.65	3.22.65	4.5.65	4.20.65
TEMPERATURE °C	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	7,500	8,800	8,100	10,900	6,000	-	39,000	59,000
5-DAY BOD	1.8	11	4.9	2.8	2.4	-	6.0	2.6
TOTAL SOLIDS	448	642	266	460	288	-	452	372
SUSPENDED SOLIDS	4	169	6	7	18	-	15	16
CONDUCTIVITY (UMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

WALLACE DRAIN

WATER QUALITY MONITORING

STATION: MMLW-82.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: WALLACE DRAIN
HWY 23

DATE COLLECTED	5.3.65	5.31.65	6.14.65	6.28.65	7.12.65	7.26.65	8.9.65	8.23.65	9.7.65	9.22.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	5,900	270,000	1,030,000	55,000	178,000	-	310,000	-	22,000	82,000
5-DAY BOD	2.1	13	10	4.0	9.8	7.0	5.8	4.2	5.4	6.0
TOTAL SOLIDS	448	450	454	486	5306	444	338	522	488	480
SUSPENDED SOLIDS	8	17	11	15	9	11	49	21	8	10
CONDUCTIVITY (UMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -				MAXIMUM -			MINIMUM -		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MAITLAND RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: MP-86.4

LOCATION: AT CONCESSION RD. NO. 2,
DOWNSTREAM FROM THE TOWN OF
PALMERSTON

DATE COLLECTED	10.9.64	12.17.64	1.29.65	7.2.65	7.22.65	8.4.65	9.21.65
TEMPERATURE °C	9	.25	.25	20.5	19.2	18.8	23.0
DISSOLVED OXYGEN	11.2	12.3	8.0	11.4	8.6	3.6	9.0
COLIFORMS (MF/100ML)	1,200	410	710	98	600	2,000	710
5-DAY BOD	1.5	2.3	2.3	1.1	1.4	1.5	1.8
TOTAL SOLIDS	450	428	390	212	372	440	384
SUSPENDED SOLIDS	-	-	3	10	5	10	8
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	3.5	2.3	1.3	2.0	3.1	3.3	3.6
PHOSPHORUS (TOTAL)	-	-	-	0.16	0.16	0.20	0.04
(SOLUBLE)	-	-	-	-	-	0.08	0.12
(FREE AMMONIA)	-	-	-	0.13	0.11	0.03	0.13
NITROGENS (TOTAL KJELDAHL)	-	-	-	0.71	0.58	0.46	0.91
(NITRITE)	-	-	-	0.01	TR	TR	0.02
(NITRATE)	-	-	-	0.0	0.00	0.00	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	18	18	24	19
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-	-
		AVERAGE		MAXIMUM		MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DRAINAGE DITCH TO BOYLE DRAIN

WATER QUALITY MONITORING

STATION: MMB-95.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: WEST OF MILVERTON
(BOYLE DRAIN)

DATE COLLECTED	12.15.64	1.27.65	2.23.65	3.23.65	6.23.65	7.19.65	8.5.65	9.7.65
TEMPERATURE °C	2.0	0.5	0.2	2.0	19.0	22.0	15.4	19
DISSOLVED OXYGEN	8.7	-	9.0	10.4	1.4	3.2	1.2	2.2
COLIFORMS (MF/100ML)	8,800	85,000	105,000	14,400	160,000	280,000	650,000	130,000
5-DAY BOD	6.7	7.9	4.6	9	12	7.6	63	6.0
TOTAL SOLIDS	494	354	422	442	1186	640	662	738
SUSPENDED SOLIDS	37	12	23	21	21	98	58	98
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	27	3.6	6.0	3.5	10.5	26.0	45	43
PHOSPHORUS (TOTAL	-	-	-	-	23	4.2	26	21
(SOLUBLE	-	-	-	-	20	3.0	26	15
(FREE AMMONIA	-	-	-	-	18.0	8.3	4.3	14.8
(TOTAL KJELDAHL	-	-	-	-	24.0	15	6.1	16.0
(NITRITE	-	-	-	-	0.01	0.02	TR	TR
(NITRATE	-	-	-	-	0.0	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	306	94	136	72
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)		AVERAGE	-	MAXIMUM	-	MINIMUM	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MANNING DRAIN
(TO L. ST. CLAIR)

WATER QUALITY MONITORING

STATION: L.ST.C. 67,28

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT RIVERSIDE DRIVE
TOWN OF RIVERSIDE

DATE COLLECTED	10.7.64	6.23.65	7.20.65	8.11.65	9.22.65	
TEMPERATURE °C	9.5	24	22	17	25	
DISSOLVED OXYGEN	0.0	23.0	9.4	2.8	0.0	
COLIFORMS (MF/100ML)	3,900,000	2,800	107,000	300,000	1,000,000	
5-DAY BOD	460	16	10	6.6	260	
TOTAL SOLIDS	1,580	828	1,174	721	-	
SUSPENDED SOLIDS	102	65	81	29	-	
CONDUCTIVITY (MICROS/CM ³)	-	-	-	-	-	
TURBIDITY (UNITS)	71	17.0	10.0	24	-	
PHOSPHORUS	(TOTAL	32	7.2	3.8	2.54	22.0
	(SOLUBLE	9.1	5.8	3.1	1.5	14.0
NITROGENS	(FREE AMMONIA	6.68	0.48	1.15	3.0	5.50
	(TOTAL KJELDAHL	6.6	3.50	5.9	8.3	13.0
	(NITRITE	TR	0.30	0.02	0.01	0.01
	(NITRATE	0.0	0.2	TR	TR	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	-	184	436	40	935	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MILLER'S CREEK

WATER QUALITY MONITORING

STATION: M-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: TWP. OF WILLOUGHBY

DATE COLLECTED	10.29.64	5.19.65	7.7.65	7.27.65	8.25.65	
TEMPERATURE °C	10	8.5	21.5	25.5	23	
DISSOLVED OXYGEN	11.6	11.4	10.0	12.2	15	
COLIFORMS (MF/100ML)	1,600	4,100	590	860	220	
5-DAY BOD	2.0	-	0.8	1.3	3.2	
TOTAL SOLIDS	232	230	226	168	218	
SUSPENDED SOLIDS	-	-	39	5	4	
CONDUCTIVITY (μMHOS/CM ² /C	-	-	-	-	-	
TURBIDITY (UNITS)	20	7.0	21.0	5.0	-	
PHOSPHORUS	(TOTAL	.22	0.20	0.30	0.20	0.44
	SOLUBLE	.10	0.06	-	0.14	0.40
NITROGENS	(FREE AMMONIA	0.1	0.06	0.05	0.13	0.39
	TOTAL KJELDAHL	1.7	0.33	2.2	0.42	2.1
	NITRITE	TR	TR	TR	TR	0.1
	NITRATE	0.0	-	0.0	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	-	26	27	29	28	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE - MAXIMUM - MINIMUM					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MILLHAVEN CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: M-0.1

LOCATION: BRIDGE ON
HWY No. 33

DATE COLLECTED	11.30.64	6.15.65	7.8.65	7.28.65	8.17.65	9.14.65
TEMPERATURE °C	0	13	19	20	21.5	19.0
DISSOLVED OXYGEN	13.9	9.2	10.0	9.0	7	11
COLIFORMS (MF/100ML)	70	78	168	32	120	*
5-DAY BOD	2.2	1.3	1.5	1.2	.3	0.6
TOTAL SOLIDS	228	194	214	204	178	230
SUSPENDED SOLIDS	-	2	9	1	3	9
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	2.8	1.1	2.6	3.1	1.4	-
PHOSPHORUS (TOTAL)	0.06	0.12	0.18	0.12	.24	0.28
(SOLUBLE)	0.04	-	0.10	0.08	.04	0.12
(FREE AMMONIA	0.0	0.10	0.13	0.36	.00	TR
NITROGENS (TOTAL KJELDAHL	1.2	0.71	0.65	0.58	.98	0.71
(NITRITE	TR	TR	TR	TR	TR	TR
(NITRATE	0.3	TR	TR	0.0	.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	12	23	20	20	22
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-
		AVERAGE		MAXIMUM		MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MIMICO CREEK

WATER QUALITY MONITORING

STATION: M-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 2

DATE COLLECTED	10.28.64	11.23.64	1.19.65	3.3.65	5.12.65	7.9.65	7.29.65	8.19.65
TEMPERATURE °C	12	2.5	0.5	2.0	13.5	25.5	19.50	21.0
DISSOLVED OXYGEN	11.7	12.4	11.2	12.1	8	11	7.9	9.0
COLIFORMS (MF/100ML)	12,000	380	410	910	25,000	1,460	27,000	180,000
5-DAY BOD	4.4	6.6	10	7.0	118	4.2	2.6	8.4
TOTAL SOLIDS	513	734	900	1,000	768	568	496	498
SUSPENDED SOLIDS	-	-	22	34	22	20	8	13
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	9.5	12.5	8.0	-	16	6.0	5.0	12
PHOSPHORUS (TOTAL)	1.1	3.0	3.2	1.2	0.08	3.1	19	0.90
(SOLUBLE)	.7	2.0	2.0	0.8	0.04	2.16	10	0.90
(FREE AMMONIA	.22	1.3	3.8	2.0	0.16	0.11	0.08	0.05
(TOTAL KJELDAHL	.84	5.0	12.0	3.3	2.2	1.00	0.98	0.84
NITROGENS (NITRITE)	0.04	0.03	0.06	0.03	0.50	0.10	0.12	0.02
(NITRATE)	0.5	0.7	1.4	0.3	-	0.5	0.0	0.20
PHENOL EQUIVALENTS (PPB)	-	60	140	-	-	-	-	-
CHLORIDES	-	-	-	-	146	104	96	110
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-	-	-
AVERAGE	-	-	-	-	-	-	-	-
MAXIMUM	-	-	-	-	-	-	-	-
MINIMUM	-	-	-	-	-	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: M-0.2

LOCATION: VICTORIA PARK EAST BANK
RIVER BELOW C.P.R.

DATE COLLECTED	4.5.65	4.26.65	6.21.65	6.22.65	7.7.65	7.13.65	8.10.65	8.24.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	-	1,900	-	41,000	25,000	9,000	41,000	17,000
5-DAY BOD	55	4.8	3.4	-	1.3	-	-	-	4.6	3.4
TOTAL SOLIDS	442	148	182	-	257	-	-	-	194	168
SUSPENDED SOLIDS	100	11	19	-	**	-	-	-	32	7
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-	-
PHOSPHORUS	(TOTAL	-	-	-	0.34	-	-	-	**	0.16
	(SOLUBLE	-	-	-	**	-	-	-	-	-
NITROGENS	(FREE AMMONIA	-	-	-	0.22	-	-	-	0.60	0.16
	(TOTAL KJELDAHL	-	-	-	1.00	-	-	-	2.10	1.00
	(NITRITE	-	-	-	TR	-	-	-	TR	TR
	(NITRATE	-	-	-	**	-	-	-	TR	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	0	-	-	-	6	2
CHLORIDES	-	-	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	7.3	-	-	-	**	8.0
ARSENIC	0.01	0.03	0.04	-	0.01	-	-	-	0.0	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-0.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy No. 2 BRIDGE
IN BELLEVILLE

DATE COLLECTED	11.30.64	6.15.65	7.7.65	7.27.65	8.17.65	9.14.65	
TEMPERATURE °C	4	19	21.5	27.5	24.5	21.0	
DISSOLVED OXYGEN	11.8	9.3	9.2	9.1	7	10	
COLIFORMS (MF/100ML)	330	1,400	**	900	1,200	160	
5-DAY BOD	2.2	1.1	0.3	1.2	0.9	5.2	
TOTAL SOLIDS	190	64	158	180	132	166	
SUSPENDED SOLIDS	-	**	3	4	5	8	
CONDUCTIVITY (MHOS/ CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	2.9	1.4	1.1	1.0	1.7	3.6	
PHOSPHORUS	(TOTAL	0.08	**	0.28	**	0.20	0.32
	(SOLUBLE	0.04	**	**	**	0.12	0.12
NITROGENS	(FREE AMMONIA	0.0	0.14	0.13	0.06	0.03	0.10
	(TOTAL KJELDAHL	0.7	0.71	0.52	0.84	0.77	1.00
	(NITRITE	0.0	TR	TR	0.0	TR	TR
	(NITRATE	0.0	**	0.15	0.0	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	
CHLORIDES	-	6	7	9	11	5	
IRON	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	
PH	-	-	-	-	-	-	
ARSENIC	-	0.01	0.01	-	-	-	
DAILY FLOW (CFS)	102	160	169	50.6	68.6	196	
YEARLY FLOW (CFS)	AVERAGE	792	MAXIMUM	7,720	MINIMUM	42.2	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: M-1.5

LOCATION: SEWER EFFLUENT - EAST SIDE
C.N.R. BRIDGE SPECIAL

DATE COLLECTED	8.3.65	8.10.65	8.17.65	8.24.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	25,000	-	110	90	410
5-DAY BOD	1.4	-	2.2	-	4.0	1.5
TOTAL SOLIDS	178	-	144	-	160	144
SUSPENDED SOLIDS	3	-	14	-	12	4
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	-
PHOSPHORUS (SOLUBLE)	-	-	-	-	-	-
NITROGENS (FREE AMMONIA)	-	-	-	-	-	-
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	-
NITRITE	-	-	-	-	-	-
NITRATE	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	0	-	4	-	6	8
CHLORIDES	-	-	-	-	-	-
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	7.5	-	8.8	-	7.8	8.3
ARSENIC	0.0	-	0.1	-	0.0	0.0
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-1.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: SEWER EFFLUENT - EAST SIDE
C.N.R. BRIDGE SPECIAL

DATE COLLECTED	2.15.65	3.8.65	3.23.65	6.8.65	6.23.65	7.7.65
TEMPERATURE °C	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	-	62,000	470,000	-
5-DAY BOD	15.0	14	18	20	-	5.3
TOTAL SOLIDS	610	528	556	364	-	180
SUSPENDED SOLIDS	25	40	138	22	-	20
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	12	15	12	30	-	9
CHLORIDES	-	-	-	-	-	-
IRON	1.77	1.50	6.75	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	7.6	7.3	8.4	-	-	7.3
ARSENIC	-	0.00	0.01	-	-	0.01
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: M-1,8

LOCATION: AT COLLEGE ST.

DATE COLLECTED 6.23.65

TEMPERATURE °C -

DISSOLVED OXYGEN -

COLIFORMS (MF/100ML) 170

5-DAY BOD -

TOTAL SOLIDS -

SUSPENDED SOLIDS -

CONDUCTIVITY (μ MHOS/CM³) -

TURBIDITY (UNITS) -

PHOSPHORUS { TOTAL -
SOLUBLE -

NITROGENS { FREE AMMONIA -
TOTAL KJELDAHL -
NITRITE -
NITRATE -

PHENOL EQUIVALENTS (PPB) -

CHLORIDES -

IRON -

HARDNESS -

ALKALINITY -

PH -

DAILY FLOW (CFS) -

YEARLY FLOW (CFS) AVERAGE - MAXIMUM - MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-3.9

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: UPSTREAM END OF CANNIFTON
BRIDGE

DATE COLLECTED	7.7.65	7.13.65	8.3.65	8.10.65	8.17.65	8.24.65	9.8.65	9.21.65	
TEMPERATURE °C	-	-	-	-	-	-	-	-	
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	
COLIFORMS (MF/100ML)	-	64	-	17,900	-	200	4,000	9,000	
5-DAY BOD	2.2	-	2.7	-	3.4	-	4.2	1.6	
TOTAL SOLIDS	168	-	112	-	166	-	156	144	
SUSPENDED SOLIDS	1	-	3	-	3	-	11	2	
CONDUCTIVITY (UMHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	
PHOSPHORUS	(TOTAL	-	-	-	-	-	-	-	
	(SOLUBLE	-	-	-	-	-	-	-	
NITROGENS	(FREE AMMONIA	-	-	-	-	-	-	-	
	(TOTAL KJELDAHL	-	-	-	-	-	-	-	
	(NITRITE	-	-	-	-	-	-	-	
	(NITRATE	-	-	-	-	-	-	-	
PHENOL EQUIVALENTS (PPB)	0	-	0	-	2	-	6	2	
CHLORIDES	-	-	-	-	-	-	-	-	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	7.6	-	7.4	-	**	-	7.7	7.9	
ARSENIC	0.01	-	0.0	-	0.05	-	0.0	0.0	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-29.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: UPSTREAM W. END STOCO BRIDGE

DATE COLLECTED	2.15.65	3.8.65	3.23.65	4.5.65	4.26.65	6.21.65	7.7.65	8.10.65	8.17.65	8.24.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	-	-	-	-	-	131,000	-	230
5-DAY BOD	2.1	2.0	6.1	2.9	2.5	0.8	1.1	-	4.2	-
TOTAL SOLIDS	128	158	182	144	118	142	182	-	382	-
SUSPENDED SOLIDS	2	4	17	2	3	3	1	-	20	-
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	10	6	16	-	-	-	0	-	8	-
CHLORIDES	-	-	-	-	-	-	-	-	-	-
IRON	0.35	0.40	0.92	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	7.5	7.5	8.6	-	-	-	7.3	-	-	-
ARSENIC	-	0.05	0.08	0.02	9.03	0.04	0.01	-	0.13	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-29.7

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: UPSTREAM W. END STOCO BRIDGE

DATE COLLECTED	9.8.65	9.21.65		
TEMPERATURE °C	-	-		
DISSOLVED OXYGEN	-	-		
COLIFORMS (MF/100ML)	40	160		
5-DAY BOD	2.3	2.2		
TOTAL SOLIDS	128	118		
SUSPENDED SOLIDS	4	2		
CONDUCTIVITY (MHOS/CM ³)	-	-		
TURBIDITY (UNITS)	-	-		
PHOSPHORUS { TOTAL	-	-		
{ SOLUBLE	-	-		
NITROGENS { FREE AMMONIA	-	-		
{ TOTAL KJELDAHL	-	-		
{ NITRITE	-	-		
{ NITRATE	-	-		
PHENOL EQUIVALENTS (PPB)	20	2		
CHLORIDES	-	-		
IRON	-	-		
HARDNESS	-	-		
ALKALINITY	-	-		
PH	7.5	7.3		
ARSENIC	0.0	0.0		
DAILY FLOW (CFS)	-	-		
YEARLY FLOW (CFS)	AVERAGE	MAXIMUM	MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M - 44.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: MOIRA LAKE AT COUNTY BRIDGE W, SIDE

DATE COLLECTED	11.10.64	11.17.64	11.24.64	2.15.65	3.8.65	3.23.65	4.5.65	4.12.65	4.26.65	5.31.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	-	-	-	-	-	-	-	-
5-DAY BOD	3.2	3.9	3.2	2.3	2.5	3.7	1.5	2.4	2.5	2.0
TOTAL SOLIDS	206	192	208	196	236	216	212	156	138	170
SUSPENDED SOLIDS	9	5	3	4	3	4	1	2	3	1
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-	-
PHOSPHORUS	(TOTAL									
	-	-	-	-	-	-	-	-	-	-
	(SOLUBLE									
	-	-	-	-	-	-	-	-	-	-
NITROGENS	(FREE AMMONIA									
	-	-	-	-	-	-	-	-	-	-
	(TOTAL KJELDAHL									
	-	-	-	-	-	-	-	-	-	-
	(NITRITE									
	-	-	-	-	-	-	-	-	-	-
	(NITRATE									
	-	-	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	4	2	6	-	-	-	2
CHLORIDES	-	-	-	-	-	-	-	-	-	-
IRON	-	-	-	0.27	0.16	0.22	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	7.6	7.6	8.5	-	-	-	-
ARSENIC	-	0.12	0.12	-	0.03	0.30	0.20	0.10	0.08	0.08
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MINIMUM</div> <div>MAXIMUM</div> </div>									

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-44.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: MOIRA LAKE AT COUNTY
BRIDGE WEST SIDE

DATE COLLECTED	6.21.65	7.7.65	7.13.65	7.20.65	8.3.65	8.10.65	8.12.65	8.17.65
TEMPERATURE °C	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	39	-	-	1,140	-	-
5-DAY BOD	5.7	3.5	-	2.6	2.2	-	-	6.2
TOTAL SOLIDS	204	218	-	192	184	-	-	214
SUSPENDED SOLIDS	7	8	-	15	13	-	-	22
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	TR
{ NITRATE	-	-	-	-	-	-	-	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	2	2	-	-	10
CHLORIDES	-	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	8.0	8.1	-	-	9.9
ARSENIC	0.07	-	-	0.10	0.0	-	0.0	0.25
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-44.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: MOIRA LAKE AT COUNTY
BRIDGE WEST SIDE

DATE COLLECTED	8.24.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-
DISSOLVED OXYGEN	-	-	-
COLIFORMS (MF/100ML)	12,000	20	3,000
5-DAY BOD	-	5.4	4.0
TOTAL SOLIDS	-	200	190
SUSPENDED SOLIDS	-	52	7
CONDUCTIVITY (MHOS/CM ³)	-	-	-
TURBIDITY (UNITS)	-	-	-
PHOSPHORUS { TOTAL	-	-	0.76
{ SOLUBLE	-	-	-
NITROGENS { FREE AMMONIA	-	-	-
{ TOTAL KJELDAHL	-	-	-
{ NITRITE	-	-	-
{ NITRATE	-	-	-
PHENOL EQUIVALENTS (PPB)	-	2	4
CHLORIDES	-	-	-
IRON	-	-	-
HARDNESS	-	-	-
ALKALINITY	-	-	-
PH	-	**	8.1
ARSENIC	-	0.05	0.0
DAILY FLOW (CFS)	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-31.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: JAMESON STREET
(TWEED)

DATE COLLECTED	12.1.64	6.16.65	7.7.65	7.8.65	7.20.65	7.28.65	8.10.65	8.18.65	8.24.65	9.8.65	9.16.65	9.21.65
TEMPERATURE °C	0	19	-	23	-	22.2	-	22.5	-	-	16.5	-
DISSOLVED OXYGEN	13.5	8.4	-	8.6	-	8.8	-	7	-	-	9	-
COLIFORMS (MF/100ML)	230	154	-	224	-	252	23,000	600	7,000	340	800	54,000
5-DAY BOD	2.1	1.2	0.9	1.0	0.7	1.0	-	1.3	-	1.3	0.9	0.8
TOTAL SOLIDS	-	94	118	146	118	194	-	**	-	136	148	126
SUSPENDED SOLIDS	5	4	3	62	7	2	-	8	-	19	**	1
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.4	1.1	-	1.3	-	3.3	-	2.8	-	-	3.1	-
PHOSPHORUS	(TOTAL	-	0.20	-	**	-	**	-	0.20	-	-	**
	(SOLUBLE	-	**	-	**	-	**	-	0.16	-	-	0.24
NITROGENS	(FREE AMMONIA	-	0.11	-	0.10	-	0.24	-	0.05	-	-	0.05
	(TOTAL KJELDAHL	-	1.80	-	0.71	-	1.2	-	0.84	-	-	0.33
	(NITRITE	-	TR	-	TR	-	0.0	-	TR	-	-	TR
	(NITRATE	-	TR	-	0.1	-	0.0	-	TR	-	-	**
PHENOL EQUIVALENTS (PPB)	-	-	-	-	2	-	-	-	-	10	-	2
CHLORIDES	-	4	-	5	-	10	-	**	-	-	5	-
IRON	-	-	-	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	8.0	-	-	-	-	-	-	-
ARSENIC	-	-	-	0.01	0.05	1.0	-	-	-	7.8	-	7.5
DAILY FLOW (CFS)	-	-	-	-	-	-	-	0.1	-	0.0	0.04	0.0
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>											

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: M-57.6

LOCATION: AT Hwy 7

DATE COLLECTED	11.10.64	11.17.64	11.24.64	2.15.65	3.8.65	3.23.65	4.5.65	4.12.65
TEMPERATURE °C	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	-	-	-	-	-	-
5-DAY BOD	2.2	2.3	2.9	2.1	3.2	2.4	2.6	2.5
TOTAL SOLIDS	278	184	200	160	154	216	250	146
SUSPENDED SOLIDS	2	10	3	1	5	2	2	27
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	15	2	2	-	-
CHLORIDES	-	-	-	-	-	-	-	-
IRON	-	-	-	0.32	0.23	0.32	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	7.6	7.4	8.4	-	-
ARSENIC	-	0.32	0.00	-	0.13	0.20	0.05	0.20
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE			MAXIMUM		MINIMUM		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA

RIVER

WATER QUALITY MONITORING

STATION: M-57.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy. 7

DATE COLLECTED	5.31.65	6.16.65	6.17.65	6.21.65	7.7.65	7.8.65	7.13.65	7.20.65	7.28.65
TEMPERATURE °C	-	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	74	16	-	-	30	176	-	96
5-DAY BOD	0.8	-	1.1	0.9	1.5	2.0	-	0.6	0.7
TOTAL SOLIDS	150	-	172	188	194	244	-	188	120
SUSPENDED SOLIDS	4	-	-	2	3	44	-	6	13
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	1.5	-	-	2.1	-	-	-
PHOSPHORUS	(TOTAL	-	-	-	-	-	-	-	2.8
	(SOLUBLE	-	-	-	-	-	-	-	0.30
NITROGENS	(FREE AMMONIA	-	-	0.38	-	0.10	-	-	0.12
	(TOTAL KJELDAHL	-	-	1.00	-	0.71	-	-	0.71
	(NITRITE	-	-	TR	-	TR	-	-	0.0
	(NITRATE	-	-	TR	-	0.2	-	-	0.0
PHENOL EQUIVALENTS (PPB)	0	-	-	-	-	-	-	2	-
CHLORIDES	-	-	8	-	-	8	-	-	5
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
ARSENIC	0.08	-	0.3	0.3	-	1.0	-	8.2	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	1.5	0.0
YEARLY FLOW (CFS)	AVERAGE			MAXIMUM		MINIMUM			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-57.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY. 7

DATE COLLECTED	8.5.65	8.10.65	8.17.65	8.18.65	8.24.65	9.8.65	9.16.65	9.21.65
TEMPERATURE °C	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	2,300	-	324	0	36	90	80
5-DAY BOD	0.6	-	1.2	1.5	-	1.4	1.2	1.8
TOTAL SOLIDS	158	-	260	-	-	200	-	216
SUSPENDED SOLIDS	7	-	4	4	-	2	-	3
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	2.1	-	-	2.8	-
PHOSPHORUS (TOTAL)	-	-	-	5.8	-	-	-	-
(SOLUBLE)	-	-	-	4.3	-	-	-	-
(FREE AMMONIA	-	-	-	0.02	-	-	0.06	-
(TOTAL KJELDAHL	-	-	-	0.82	-	-	0.48	-
NITROGENS (NITRITE	-	-	TR	0.00	-	-	TR	-
(NITRATE	-	-	-	TR	-	-	-	-
PHENOL EQUIVALENTS (PPB)	0	-	2	-	-	15	-	0
CHLORIDES	-	-	-	-	-	-	2	-
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	8.1	-	8.6	-	-	-	-	-
ARSENIC	1.0	-	5.0	5.0	-	2.5	4.0	7.9
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: M-62.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: DOWNSTREAM FROM MALONE

DATE COLLECTED	11.10.64	11.17.64	11.24.64	2.15.6	3.8.65	3.23.65	4.5.65	4.12.65	4.28.65	5.31.65	6.21.65	
TEMPERATURE °C	-	-	-	-	-	-	-	-	-	-	-	
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-	-	-	-	
COLIFORMS (MF/100ML)	-	-	-	-	-	-	-	-	-	-	-	
5-DAY BOD	2.3	2.1	2.6	1.7	2.8	2.8	1.6	3.1	1.9	1.2	1.0	
TOTAL SOLIDS	244	212	258	160	156	214	192	178	126	154	206	
SUSPENDED SOLIDS	3	1	8	1	4	2	3	38	6	4	4	
CONDUCTIVITY (µMHOS/ CM ³)	-	-	-	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-	-	-	-	
PHOSPHORUS	(TOTAL	-	-	-	-	-	-	-	-	-	-	
	(SOLUBLE	-	-	-	-	-	-	-	-	-	-	
NITROGENS	(FREE AMMONIA	-	-	-	-	-	-	-	-	-	-	
	(TOTAL KJELDAHL	-	-	-	-	-	-	-	-	-	-	
	(NITRITE	-	-	-	-	-	-	-	-	-	-	
	(NITRATE	-	-	-	-	-	-	-	-	-	-	
PHENOL EQUIVALENTS (PPB)	-	-	-	10	2	4	-	-	-	0	-	
CHLORIDES	-	-	-	-	-	-	-	-	-	-	-	
IRON	-	-	-	0.30	0.34	0.32	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	-	-	-	
PH	-	-	-	7.5	7.5	-	-	-	-	-	-	
ARSENIC	-	0.00	0.30	-	0.00	0.00	0.00	0.01	0.00	0.0	0.00	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE			-	MAXIMUM			-	MINIMUM			-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DEER CREEK

WATER QUALITY MONITORING

STATION: MD -46.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 100 YARDS DOWNSTREAM FROM
MADOC SEWAGE TREATMENT PLANT

DATE COLLECTED	2.17.65	7.7.65	7.20.65	8.10.65	8.24.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	24,000	-	-	57,000	4,800	48,000	38,000
5-DAY BOD	2.2	2.9	3.2	-	-	2.0	1.8
TOTAL SOLIDS	230	306	304	-	-	320	294
SUSPENDED SOLIDS	4	7	8	-	-	5	5
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	2	-	-	2	2
CHLORIDES	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	7.8	-	-	7.5	7.7
ARSENIC	-	-	0.0	-	-	0.0	0.0
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DEER CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: MD-46.5

LOCATION: DEER CREEK 100 YDS.
DOWNSTREAM FROM MADOC S.T.P.

DATE COLLECTED	6.30.64	7.14.64	7.28.64	8.8.64
TEMPERATURE °C	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-
COLIFORMS (MF/100ML)	8 IN TR	61,000	31,000	710,000
5-DAY BOD	3.2	1.3	3.9	5.4
TOTAL SOLIDS	288	284	320	366
SUSPENDED SOLIDS	2	14	18	9
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-
{ SOLUBLE	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-
{ NITRITE	-	-	-	-
{ NITRATE	-	-	-	-
PHENOL EQUIVALENTS (PPB)	0	0	4	-
CHLORIDES	-	-	-	-
IRON	0.29	0.75	0.30	-
HARDNESS	-	-	-	-
ALKALINITY	-	-	-	-
PH	8.3	8.4	8.1	-
ARSENIC AS AS	0.06	0.00	0.0	-
DAILY FLOW (CFS)	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SULPHIDE CREEK

WATER QUALITY MONITORING

STATION: MS-32.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: SUPSTREAM FROM
STOCO LAKE

DATE COLLECTED	7.7.65	8.10.65	8.24.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-
COLIFORMS (MF/100ML)	-	880	6,000	370	60
5-DAY BOD	2.2	-	-	1.0	0.8
TOTAL SOLIDS	248	-	-	107	204
SUSPENDED SOLIDS	3	-	-	1	2
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-
(SOLUBLE)	-	-	-	-	-
(FREE AMMONIA)	-	-	-	-	-
(TOTAL KJELDAHL)	-	-	-	-	-
NITROGENS (NITRITE)	-	-	-	-	-
(NITRATE)	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	6	-	-	8	4
CHLORIDES	-	-	-	-	-
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	6.9	-	-	7.7	7.3
SULPHATE (SO ₄)	-	-	-	18	13
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CLARE RIVER

WATER QUALITY MONITORING

STATION: MC-32.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: UPSTREAM FROM
STOCO LAKE

DATE COLLECTED	7.7.65	8.3.65	8.10.65	8.24.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	9,000	130	600	60
5-DAY BOD	1.7	1.0	-	-	0.2	2.0
TOTAL SOLIDS	296	208	-	-	200	204
SUSPENDED SOLIDS	7	2	-	-	2	5
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	-
(SOLUBLE)	-	-	-	-	-	-
(FREE AMMONIA)	-	-	-	-	-	-
(TOTAL KJELDAHL)	-	-	-	-	-	-
NITROGENS (NITRITE)	-	-	-	-	-	-
(NITRATE)	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	0	0	-	-	10	0
CHLORIDES	-	-	-	-	-	-
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	7.5	7.9	-	-	-	7.5
SULPHATE (SO ₄)	-	15	-	-	24	25
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: MW-26.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: S. SIDE W. END CHAPMAN'S
BRIDGE WEST CHANNEL

DATE COLLECTED	2.15.65	3.8.65	3.23.65	4.5.65	4.26.65	8.21.65	7.7.65
TEMPERATURE °C	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	-	-	-	-	-	-
5-DAY BOD	2.3	2.7	3.7	7.2	3.8	1.7	1.4
TOTAL SOLIDS	132	144	152	176	124	172	142
SUSPENDED SOLIDS	1	5	5	7	3	2	1
CONDUCTIVITY (MHMS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	6	4	12	-	-	-	9
CHLORIDES	-	-	-	-	-	-	-
IRON	0.37	0.30	0.48	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	7.8	7.5	8.7	-	-	-	7.2
ARSENIC	-	3.04	0.08	0.03	0.03	0.00	0.02
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

MOIRA RIVER

WATER QUALITY MONITORING

STATION: MW-26.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: S. SIDE W. END CHAPMAN'S
BRIDGE WEST CHANNEL

DATE COLLECTED	8.3.65	8.10.65	8.24.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-
COLIFORMS (MF/100ML)	-	570	80	70	90
5-DAY BOD	1.3	-	-	0.6	1.4
TOTAL SOLIDS	162	-	-	144	150
SUSPENDED SOLIDS	4	-	-	1	2
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-
{ NITRITE	-	-	-	-	-
{ NITRATE	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	0	-	-	0	2
CHLORIDES	-	-	-	-	-
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	7.6	-	-	7.5	7.5
ARSENIC	0.0	-	-	0.0	0.0
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DEER CREEK

WATER QUALITY MONITORING

STATION: MD-45.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: UPSTREAM FROM JUNCTION
WITH MOIRA LAKE

DATE COLLECTED	7.7.65	7.13.65	7.20.65	8.10.65	8.24.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	-	3,300	-	6,400	13,000	1,100	24,000
5-DAY BOD	5.8	-	1.5	-	-	1.2	2.2
TOTAL SOLIDS	350	-	302	-	-	312	310
SUSPENDED SOLIDS	49	-	13	-	-	7	5
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-	-	-	-
{ SOLUBLE	-	-	-	-	-	-	-
NITROGENS { FREE AMMONIA	-	-	-	-	-	-	-
{ TOTAL KJELDAHL	-	-	-	-	-	-	-
{ NITRITE	-	-	-	-	-	-	-
{ NITRATE	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	4	-	-	2	2
CHLORIDES	-	-	-	-	-	-	-
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	8.0	-	-	7.8	7.6
ARSENIC	-	-	0.05	-	-	0.0	0.0
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

L I L Y C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

STATION:

LOCATION: L I L Y C R E E K A N D
 H W Y . N O . 7

DATE COLLECTED	5.31.65	6.21.65	9.8.65	9.21.65
TEMPERATURE °C	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-
COLIFORMS (MF/100ML)	-	-	22	500
5-DAY BOD	1.4	1.0	1.8	1.8
TOTAL SOLIDS	746	884	**	966
SUSPENDED SOLIDS	8	3	**	3
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-
PHOSPHORUS { TOTAL	-	-	-	-
{ SOLUBLE	-	-	-	-
NITROGENS {	FREE AMMONIA	-	-	-
	TOTAL KJELDAHL	-	-	-
	NITRITE	-	-	-
	NITRATE	-	-	-
PHENOL EQUIVALENTS (PPB)	25	-	8	10
CHLORIDES	-	-	-	-
IRON	-	-	-	-
HARDNESS	-	-	-	-
ALKALINITY	-	-	-	-
PH	-	-	-	7.5
ARSENIC	0.0	0.00	0.0	0.0
DAILY FLOW (CFS)	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-
				MINIMUM

R E S U L T S I N P A R T S P E R M I L L I O N (P P M) E X C E P T W H E R E O T H E R W I S E N O T E D .

NANTICKE CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: N-1.0

LOCATION: BETWEEN CON. 1 & 2

DATE COLLECTED	10.5.64	11.30.64	1.26.65	5.19.65	7.7.65	7.27.65	8.26.65	
TEMPERATURE °C	9.5	0.5	0.5	23	19.5	21.0	22	
DISSOLVED OXYGEN	9.8	14.2	10.0	11.2	5.2	5.0	8	
COLIFORMS (MF/100ML)	900	50	230	210	3,100	4,000	740	
5-DAY BOD	1.3	2.7	8.4	1.6	2.4	4.2	2.6	
TOTAL SOLIDS	342	410	406	334	408	404	362	
SUSPENDED SOLIDS	14	11	10	36	47	102	41	
CONDUCTIVITY (MHOS/ CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	13.5	2.5	6	6.0	24.0	45.0	-	
PHOSPHORUS	{ TOTAL	.16	.44	.28	-	0.52	0.72	0.48
	{ SOLUBLE	.10	.04	.12	-	0.10	0.13	0.10
NITROGENS	{ FREE AMMONIA	0.08	0.03	0.2	0.13	TR	.12	TR
	{ TOTAL KJELDAHL	.71	.80	.60	0.64	1.20	1.3	1.20
	{ NITRITE	0.0	TR	0.01	0.0	TR	TR	TR
	{ NITRATE	0.0	0.4	0.6	0.0	TR	TR	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	38	-	23	43	31	59	
IRON	-	.30	-	-	-	-	-	
HARDNESS	-	300	-	-	-	-	-	
ALKALINITY	-	224	-	-	-	-	-	
PH	-	8.3	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

N A P A N E E R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: N-3.5

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

LOCATION: BELOW NAPANEE

DATE COLLECTED	11.30.64	6.15.65	7.8.65	7.28.65	8.17.65	9.14.65
TEMPERATURE °C	1.0	18	22.5	22.0	23.0	20.0
DISSOLVED OXYGEN	8.3	8.7	7.6	8.2	8	9
COLIFORMS (MF/100ML)	94	58	6,500	42,000	39,000	400
5-DAY BOD	3.2	1.0	5.2	5.1	3.1	2.3
TOTAL SOLIDS	208	192	230	234	204	214
SUSPENDED SOLIDS	-	5	20	20	45	18
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	6.5	1.8	9.0	7.5	5.5	-
PHOSPHORUS	(TOTAL	0.18	0.18	1.28	1.4	.80
	(SOLUBLE	0.04	-	0.76	1.2	.32
NITROGENS	(FREE AMMONIA	0.0	0.16	1.00	0.39	.20
	(TOTAL KJELDAHL	0.6	0.52	2.8	2.0	1.4
	(NITRITE	TR	TR	0.01	TR	TR
	(NITRATE	TR	TR	TR	TR	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	12	15	14	130	13
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	45.3	37.8	33.5	23.3	24.1
YEARLY FLOW (CFS)	AVERAGE 236		MAXIMUM 1,690		MINIMUM 11.3	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BOYNE RIVER

WATER QUALITY MONITORING

STATION: NB-50.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT COUNTY Rd. 10

DATE COLLECTED	10.16.64	11.23.64	12.14.64	1.19.65	3.16.65	5.17.65	7.20.65	8.24.65	
TEMPERATURE °C	10.0	0.5	0.5	0.5	3.0	14.5	15.8	20.0	
DISSOLVED OXYGEN	8.8	12.2	12.3	9.0	12.6	8.8	9.0	8.0	
COLIFORMS (MF/100ML)	73,000	3,800	52,000	46,000	114,000	54,000	15,000	13,800	
5-DAY BOD	4.0	3.3	5.0	11.2	6.8	2.4	2.5	3.2	
TOTAL SOLIDS	318	358	364	398	308	308	344	334	
SUSPENDED SOLIDS	-	-	89	29	14	21	24	4	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	7.5	6.5	20.0	9.0	5.0	3.3	8.0	-	
PHOSPHORUS (TOTAL	-	-	-	-	-	0.36	0.88	1.48	
(SOLUBLE	-	-	-	-	-	0.24	-	1.04	
(FREE AMMONIA	-	-	-	-	-	0.16	0.24	0.68	
(TOTAL KJELDAHL	-	-	-	-	-	0.91	0.91	1.4	
(NITRITE	-	-	-	-	-	0.01	0.03	Tr	
(NITRATE	-	-	-	-	-	-	0.3	0.40	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	-	11	13	19	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

OAKVILLE CREEK

WATER QUALITY MONITORING

STATION: 0-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 2
(OAKVILLE)

DATE COLLECTED	10.28.64	11.26.64	2.3.65	3.3.65	5.13.65	7.5.65	7.9.65	7.19.65	7.28.65	
TEMPERATURE °C	11.5	3.5	0.5	1	17.5	17.5	23.5	-	18.8	
DISSOLVED OXYGEN	12.0	12.9	10.2	11.1	8.2	8.2	9	-	8.8	
COLIFORMS (MF/100ML)	120	28	0	2,800	8	310	0	110,000	3,000	
5-DAY BOD	1.1	3.2	2.9	2.8	1.4	1.6	1.8	-	1.7	
TOTAL SOLIDS	376	376	398	454	298	388	344	-	264	
SUSPENDED SOLIDS	-	15	4	12	10	42	30	-	9	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	4.5	21	2	4.5	5.0	11.5	310	-	9	
PHOSPHORUS	(TOTAL	1.72	.92	.7	.52	0.28	0.50	0.50	-	0.52
	(SOLUBLE	1.60	.80	-	.40	-	0.44	-	-	0.34
NITROGENS	(FREE AMMONIA	.38	.40	.60	.60	0.20	0.02	0.11	-	0.21
	(TOTAL KJELDAHL	.71	1.7	0.7	-	0.58	0.52	0.84	-	0.84
	(NITRITE	0.01	0.01	TR	0.01	TR	0.05	0.01	-	TR
	(NITRATE	0.4	0.6	0.6	0.3	-	-	TR	-	0.06
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	-	38	32	-	31	
IRON	-	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

OAKVILLE CREEK

WATER QUALITY MONITORING

STATION: 0-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 2 (OAKVILLE)

DATE COLLECTED	8.3.65	8.9.65	8.16.65	8.19.65	8.31.65	9.14.65	9.28.65
TEMPERATURE °C	-	-	-	20	13	17	10.0
DISSOLVED OXYGEN	-	-	-	10	14	10	11
COLIFORMS (MF/100ML)	130,000	312	230	40	420	2	90
5-DAY BOD	2.4	1.3	1.4	1.6	0.7	1.6	0.9
TOTAL SOLIDS	690	354	370	298	238	326	336
SUSPENDED SOLIDS	370	19	16	9	7	7	8
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	480	-	20	-	21	11	3.6
PHOSPHORUS	(TOTAL	1.6	-	0.36	-	0.48	0.56
	(SOLUBLE	0.24	-	0.27	-	0.2	0.44
NITROGENS	(FREE AMMONIA	TR	-	0.06	0.08	TR	0.13
	(TOTAL KJELDAHL	1.1	-	0.26	0.39	0.2	0.26
	(NITRITE	TR	-	TR	TR	TR	0.01
	(NITRATE	0.10	-	0	0.20	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	26	-	43	55	-	37	28
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

OAKVILLE CREEK

WATER QUALITY MONITORING

STATION: 0-14.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT #10 SIDE ROAD AND
HWY 25 (N. SIDE)

DATE COLLECTED	7.5.65	7.19.65	8.3.65	8.9.65	8.16.65	8.20.65	8.31.65	9.14.65	9.28.65
TEMPERATURE °C	-	-	-	-	-	16	13	18	12
DISSOLVED OXYGEN	-	-	-	-	-	11	9	9	10
COLIFORMS (MF/100ML)	9,000	19,000	55,000	45,000	22,000	-	1,100	8,000	10,000
5-DAY BOD	1.4	-	2.8	1.8	4.8	-	1.8	1.6	2.2
TOTAL SOLIDS	512	-	470	436	336	-	338	360	342
SUSPENDED SOLIDS	35	-	32	23	35	-	4	6	17
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	13.5	-	56	-	23	-	40	16	11.0
PHOSPHORUS (TOTAL)	0.80	-	1.3	-	1.28	-	2.20	10.6	1.76
(SOLUBLE)	-	-	0.9	-	0.72	-	1.16	3.1	1.52
(FREE AMMONIA)	0.60	-	TR	-	0.39	-	0.60	1.50	0.85
(TOTAL KJELDAHL)	1.3	-	1.10	-	1.2	-	1.00	2.60	1.10
NITROGENS (NITRITE)	0.019	-	0.01	-	0.08	-	0.06	0.16	0.10
(NITRATE)	-	-	0.40	-	0.20	-	0.3	0.50	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	25	-	26	-	25	-	30	29	22
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	11.5	12.7	25.0	12.7	10.6	10.6	9.2	8.7	23.5
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ONE MILE CREEK

WATER QUALITY MONITORING

STATION: 0-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT NIAGARA BLVD.
(NIAGARA ON THE LAKE)

DATE COLLECTED	10.29.64	5.18.65	7.8.65	8.25.65
TEMPERATURE °C	10	24.0	18	12
DISSOLVED OXYGEN	7.8	5.6	5.0	5
COLIFORMS (MF/100ML)	8,000	360,000	46,000	23,000
5-DAY BOD	15	28	5.6	4.6
TOTAL SOLIDS	664	762	540	356
SUSPENDED SOLIDS	-	55	44	24
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-
TURBIDITY (UNITS)	40	6	9.5	-
PHOSPHORUS (TOTAL)	1.7	13	1.32	1.40
PHOSPHORUS (SOLUBLE)	0.4	7.2	0.86	0.56
NITROGENS (FREE AMMONIA)	0.8	10.0	0.64	1.3
NITROGENS (TOTAL KJELDAHL)	5.0	18.5	1.6	2.8
NITROGENS (NITRITE)	0.02	TR	0.3	0.04
NITROGENS (NITRATE)	TR	0.0	TR	0.16
PHENOL EQUIVALENTS (PPB)	-	-	-	-
CHLORIDES	-	152	25	-
IRON	-	-	-	-
HARDNESS	-	-	-	-
ALKALINITY	-	-	-	-
PH	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ORCHARD CREEK

WATER QUALITY MONITORING

STATION: 0-0.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT GEORGIAN BAY

DATE COLLECTED	12.17.64	6.30.65	7.21.65	8.5.65	8.24.65
TEMPERATURE °C	.25	17	19	20.5	15.5
DISSOLVED OXYGEN	13.4	9.2	7.0	3.0	3.0
COLIFORMS (MF/100ML)	156	98,000	98,000	11,900	460,000
5-DAY BOD	2.4	2.8	4.4	3.1	15
TOTAL SOLIDS	296	356	278	110	306
SUSPENDED SOLIDS	9	24	70	-	31
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	11.5	7.5	-	6.5	-
PHOSPHORUS (TOTAL)	.10	0.64	-	1.0	14
(SOLUBLE)	.04	-	-	0.50	6.7
(FREE AMMONIA)	0.0	0.42	0.64	0.20	3.0
NITROGENS (TOTAL KJELDAHL)	0.2	1.40	1.50	0.71	4.8
(NITRITE)	TR	TR	0.05	0.02	TR
(NITRATE)	0.3	0.2	0.05	-	0.10
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	9	13	11	14
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

OSHAWA CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: 0-0.4

LOCATION: BRIDGE ON SIMCOE ST.
SOUTH (OSHAWA)

DATE COLLECTED	12.3.64	1.21.65	2.18.65	3.25.65	6.18.65	7.6.65	7.26.65	8.17.65
TEMPERATURE °C	1	4	3	2	16	18	21.2	20.5
DISSOLVED OXYGEN	11.0	11.0	12.0	12.6	7.1	6.9	5.1	5.0
COLIFORMS (MF/100ML)	17,000	90	1,310	1,340	9,000	19,000	8,800	19,000
5-DAY BOD	4.2	55	14	6.4	7.6	1.2	17.0	3.1
TOTAL SOLIDS	910	1,082	440	508	344	426	646	362
SUSPENDED SOLIDS	-	-	26	35	37	17	25	5
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	7.5	45	-	38	9.5	6.0	21.0	13
PHOSPHORUS (TOTAL)	5.2	3.0	-	0.62	1.2	1.08	0.70	0.96
(SOLUBLE)	-	1.2	-	0.1	0.34	0.62	0.04	0.56
(FREE AMMONIA)	1.5	3.9	2.5	1.5	0.60	1.02	6.2	1.3
NITROGENS (TOTAL KJELDAHL)	2.4	8.3	3.5	2.03	1.9	7.4	9.4	2.0
(NITRITE)	0.02	0.03	0.01	0.01	0.04	TR	TR	0.01
(NITRATE)	1.7	0.0	0.2	0.30	TR	TR	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-
IRON	-	-	-	-	43	39	116	34
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	14	16.8	21	29	23.6	16.8	15.0	13.2
YEARLY FLOW (CFS)		AVERAGE 44.5		MAXIMUM 930		MINIMUM 12.6		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

PARENT DRAIN

WATER QUALITY MONITORING

STATION: L.ST.C.-58,260

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: W. BOUNDARY OF TECHUMSEH
(RIVERSIDE DRIVE)

DATE COLLECTED	6.23.65	7.20.65	8.11.65	8.20.65	9.22.65
TEMPERATURE °C	25.0	22.5	19.0	-	-
DISSOLVED OXYGEN	5.9	4.0	3.4	2.5	-
COLIFORMS (MF/100ML)	6,000	43,000	50,000	43,000	19,000
5-DAY BOD	3.2	12	4.6	12	5.4
TOTAL SOLIDS	578	454	424	454	368
SUSPENDED SOLIDS	270	216	164	216	162
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	53.0	65.0	84	65	39.0
PHOSPHORUS (TOTAL)	2.0	2.2	1.72	2.2	1.7
(SOLUBLE)	-	0.80	1.0	0.80	0.8
(FREE AMMONIA)	0.51	1.16	1.3	1.16	1.00
NITROGENS (TOTAL KJELDAHL)	2.70	2.8	2.3	2.8	2.70
(NITRITE)	0.10	0.0	0.03	0.0	0.02
(NITRATE)	0.4	0.0	0.00	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	34	36	82	36	29
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

PEFFERLAW & UXBRIDGE BROOK

WATER QUALITY MONITORING

STATION: PU-20.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BELOW UXBRIDGE
S.T.P.

DATE COLLECTED	2.19.65	3.19.65	5.14.65	7.9.65	7.29.65	8.18.65
TEMPERATURE °C	1	2	13	22	18	17
DISSOLVED OXYGEN	14.8	14.6	9.2	7.2	8.6	6
COLIFORMS (MF/100ML)	490	38,000	95,000	95,000	7,800	140,000
5-DAY BOD	3.7	6.2	-	7.2	4.8	10
TOTAL SOLIDS	196	254	300	352	-	312
SUSPENDED SOLIDS	4	9	-	84	-	5
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	4.5	-	6.5	-	9.0
PHOSPHORUS (TOTAL)	-	-	-	-	-	1.5
(SOLUBLE)	-	-	-	-	-	1.3
(FREE AMMONIA)	0.2	-	0.8	.96	0.92	0.66
NITROGENS (TOTAL KJELDAHL)	0.7	-	1.70	1.65	2.0	2.6
(NITRITE)	TR	-	0.02	.04	0.02	0.01
(NITRATE)	0.4	-	0.2	.15	-	TR
CYANIDE	0	0	1.9	.5	0	0
CHROME	0.0	0.03	0.14	-	0.2	0.1
COPPER	0.0	0.0	0.0	-	0.1	-
CL	-	-	-	9.0	11	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
ETHER SOLUBLES	-	-	-	-	-	-
DAILY FLOW (CFS)	13	0	3.4	-	-	-
	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

PENETANGORE RIVER

WATER QUALITY MONITORING

STATION: P-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT FIRST BRIDGE UPSTREAM FROM
LAKE HURON, TOWN OF KINCARDINE

DATE COLLECTED	10.8.64	12.17.64	7.20.65	8.5.65	9.22.65	
TEMPERATURE °C	9.5	0.5	12.0	19.2	23.0	
DISSOLVED OXYGEN	7.2	13.0	15.0	4.2	8.0	
COLIFORMS (MF/100ML)	22,000	710	830	1,100	900	
5-DAY BOD	3.8	2.9	4.3	1.7	1.4	
TOTAL SOLIDS	346	280	242	256	240	
SUSPENDED SOLIDS	-	15	21	23	16	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	
TURBIDITY (UNITS)	40	23	11.0	11.5	7.5	
PHOSPHORUS	(TOTAL	.38	.28	0.34	0.30	0.16
	(SOLUBLE	.34	.12	0.18	0.10	0.04
NITROGENS	(FREE AMMONIA	.58	.1	.13	0.12	0.03
	(TOTAL KJELDAHL	1.10	.8	0.71	0.39	0.26
	(NITRITE	0.01	TR	TR	TR	TR
	(NITRATE	0.15	2.2	0.8	0.15	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	-	-	12	16	16	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

PINE RIVER

WATER QUALITY MONITORING

STATION: N-1.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT CONCESSION A

DATE COLLECTED	12.17.64	1.28.65	2.23.65	3.23.65	6.23.65	7.20.65	8.5.65	9.21.64	
TEMPERATURE °C	0.5	0.25	0.1	1.0	22.0	24.0	22.2	24.0	
DISSOLVED OXYGEN	12.6	13.0	13	12.2	12.4	10.0	4.2	10.0	
COLIFORMS (MF/100ML)	820	530	35	1,100	50	900	2,900	150	
5-DAY BOD	2.5	1.7	1.7	2.4	2.8	3.6	2.8	2.4	
TOTAL SOLIDS	316	300	302	294	312	340	400	410	
SUSPENDED SOLIDS	22	10	5	20	21	65	95	122	
CONDUCTIVITY (MICROS/ CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	31	-	-	5.5	9.0	74.0	8.1	42.0	
PHOSPHORUS	(TOTAL	.28	.18	.10	0.42	0.16	0.40	0.30	
	(SOLUBLE	0.14	0	.06	-	0.08	0.20	0.20	
NITROGENS	(FREE AMMONIA	0.1	0.2	TR	0.05	TR	.16	0.20	
	(TOTAL KJELDAHL	0.9	0.4	0.3	0.8	0.33	0.98	0.84	
	(NITRITE	TR	TR	TR	0.01	TR	TR	TR	
	(NITRATE	2.8	2.0	1.3	0.58	0.0	0.0	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	11	26	34	20	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

PIKE CREEK

WATER QUALITY MONITORING

STATION: P-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 39

DATE COLLECTED	10.6.64	12.2.64	1.28.65	3.18.65	6.23.65	7.20.65	8.11.65	9.22.65	
TEMPERATURE °C	10.5	0.5	0.25	1.0	24.0	24.0	21.0	24.8	
DISSOLVED OXYGEN	10	12.3	10.8	12.0	10.7	8.2	9	8.0	
COLIFORMS (MF/100ML)	500	270	1,070	820	6,300	3,000	170	2,100	
5-DAY BOD	8.2	5.7	2.6	2.4	6.8	3.4	4.0	4.2	
TOTAL SOLIDS	418	276	368	398	572	6,414	402	438	
SUSPENDED SOLIDS	75	18	22	52	61	84	48	50	
CONDUCTIVITY (µMHOS/ CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	59	16	27	30	16.0	36.0	48	39.0	
PHOSPHORUS	(TOTAL	0.58	-	-	0.52	0.58	0.50	0.40	0.4
	(SOLUBLE	.24	-	-	0.24	0.28	0.16	0.15	0.08
NITROGENS	(FREE AMMONIA	0.08	0.5	-	0.38	0.64	0.22	0.16	0.10
	(TOTAL KJELDAHL	1.4	1.2	-	1.4	1.80	1.6	1.1	1.10
	(NITRITE	0.01	TR	-	0.03	0.02	0.0	TR	TR
	(NITRATE	0.0	0.0	-	3.6	TR	0.0	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	34	-	-	48	32	32	44	
IRON	-	0.40	-	-	-	-	-	-	
HARDNESS	-	270	-	-	-	-	-	-	
ALKALINITY	-	144	-	-	-	-	-	-	
PH	-	7.8	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

POTTAWATOMI RIVER

WATER QUALITY MONITORING

STATION: P-0,2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 4TH AVENUE BRIDGE

DATE COLLECTED	10.8.64	12.17.64	1.28.65	2.24.65	3.23.65	6.29.65	7.21.65	8.5.65	9.21.65
TEMPERATURE °C	11	1.5	0.25	0.1	2.0	20.0	16.8	18.5	21.0
DISSOLVED OXYGEN	12.8	12.8	14.5	14.2	14.8	13.2	13.2	9.2	5.0
COLIFORMS (MF/100ML)	900	1,300	1,010	3,900	800	1,540	900	180	140,000
5-DAY BOD	1.4	1.8	1.3	1.7	3.1	1.0	1.4	1.3	1.8
TOTAL SOLIDS	348	516	396	288	296	446	312	372	360
SUSPENDED SOLIDS	"	12	8	4	5	24	4	58	98
CONDUCTIVITY (μMHOS/CM ³)	"	"	"	"	"	"	"	"	"
TURBIDITY (UNITS)	4.0	9.0	"	"	1.4	6.5	6.5	6.0	59.0
PHOSPHORUS	(TOTAL	0.08	.14	0.14	0.08	0.12	0.14	0.14	0.50
	(SOLUBLE	0.06	.05	0.0	0.06	0.12	"	0.08	0.30
NITROGENS	(FREE AMMONIA	0.0	0.2	0.1	0.1	0.06	0.10	.03	0.08
	(TOTAL KJELDAHL	0.13	0.8	0.6	0.5	0.40	0.78	0.58	0.52
	(NITRITE	TR	TR	TR	TR	TR	TR	TR	0.01
	(NITRATE	0.5	1.6	1.0	0.8	0.68	0.5	0.6	0.30
PHENOL EQUIVALENTS (PPB)	"	"	"	"	"	"	"	"	"
CHLORIDES	"	"	"	"	"	10	8	11	15
IRON	"	"	"	"	"	"	"	"	"
HARDNESS	"	"	"	"	"	"	"	"	"
ALKALINITY	"	"	"	"	"	"	"	"	"
PH	"	"	"	"	"	"	"	"	"
DAILY FLOW (CFS)	"	"	"	"	"	"	"	"	"
YEARLY FLOW (CFS)	AVERAGE		"	MAXIMUM		"	MINIMUM		"

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

P R E T T Y R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: P-1.5

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

LOCATION: H I G H W A Y 2 6 B R I D G E

DATE COLLECTED	10.8.64	12.17.64	2.24.65	3.25.65	6.30.65	7.21.65	8.5.65	8.24.65
TEMPERATURE °C	11	0.5	0.1	.5	19.8	22.5	21.5	19.0
DISSOLVED OXYGEN	12.4	13.0	13.6	14.0	11.8	11.0	4.8	10.0
COLIFORMS (MF/100ML)	188	180	12	8	284	98	94	158
5-DAY BOD	1.3	2.8	1.0	2.7	0.5	0.7	0.5	9.5
TOTAL SOLIDS	244	316	292	308	358	238	242	212
SUSPENDED SOLIDS	-	12	2	18	20	10	11	7
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	4.0	13.0	-	2.5	4.5	6.5	4.5	-
PHOSPHORUS	TOTAL							
	.08	.12	.06	0.08	0.04	0.12	0.80	0.12
PHOSPHORUS	SOLUBLE							
	.04	.03	.04	0.08	-	0.10	0.62	0.12
NITROGENS	FREE AMMONIA							
	0.0	0.1	TR	0.0	0.03	0.06	0.02	0.00
	TOTAL KJELDAHL							
	0.07	0.3	0.1	0.07	0.40	0.33	0.33	0.13
NITROGENS	NITRITE							
	TR	TR	TR	0.0	TR	TR	TR	TR
NITROGENS	NITRATE							
	0.0	0.5	0.6	0.70	-	0.18	-	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	3	6	4	3
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between;"> AVERAGE MAXIMUM MINIMUM </div>							

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

PRINGLE CREEK

WATER QUALITY MONITORING

STATION: P-0.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BRIDGE ON BROCK ST.
SOUTH (WHITBY)

DATE COLLECTED	12.3.64	1.21.65	2.19.65	3.25.65	6.18.65	7.6.65	7.26.65	8.17.65
TEMPERATURE °C	2	6.0	5.0	5.0	18.0	18.0	22.5	21.0
DISSOLVED OXYGEN	8.6	9.6	9.8	11.2	7.8	7.6	7.4	1.0
COLIFORMS (MF/100ML)	0	0	0	0	500	7,000	7,700	250,000
5-DAY BOD	41	4.8	4.4	4.2	2.2	2.6	3.0	13
TOTAL SOLIDS	734	476	456	790	344	616	590	586
SUSPENDED SOLIDS	-	-	38	21	10	18	9	7
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	42	16	-	8	4.5	10.0	6.0	-
PHOSPHORUS (TOTAL)	.25	8.8	5	3.0	9	-	6.8	9.0
(SOLUBLE)	-	8.8	-	-	9	-	5.9	6.30
(FREE AMMONIA	2.9	0.1	0.5	3.2	1.00	2.13	2.62	1.6
NITROGENS (TOTAL KJELDAHL)	6.0	1.7	1.3	3.8	2.7	3.60	-	4.0
(NITRITE)	0.02	0.05	0.02	0.01	0.1	-	0.25	0.00
(NITRATE)	0.0	5.5	4.4	0.72	0.5	2.2	TR	0.00
PHENOL EQUIVALENTS (PPB)	10	30	8	18	2	-	-	25
CHLORIDES	-	-	-	-	68	147	149	177
IRON	-	-	-	-	-	0.85	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

PUCE RIVER

WATER QUALITY MONITORING

STATION: P-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 39

DATE COLLECTED	10.6.64	12.3.64	1.28.65	3.18.65	6.23.65	7.20.65	8.11.65	9.22.65	
TEMPERATURE °C	11	0.5	0.25	1.5	24.8	24.0	21.5	24.2	
DISSOLVED OXYGEN	4.6	4.7	11.2	12.4	8.6	8.6	12	7.0	
COLIFORMS (MF/100ML)	35,000	390	37,000	10,000	900	1,900,000	23,000	5,100	
5-DAY BOD	10	14	3.2	2.6	7.4	3.4	6.8	9	
TOTAL SOLIDS	712	556	380	414	524	396	488	520	
SUSPENDED SOLIDS	174	74	27	93	182	214	116	152	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	81	20	27	37	39.0	56.0	71	150	
PHOSPHORUS	(TOTAL	11.0	0.90	-	0.64	1.44	1.16	1.76	1.4
	(SOLUBLE	3.5	0.50	-	0.28	0.60	0.54	0.64	0.3
NITROGENS	(FREE AMMONIA	.13	6.0	-	0.48	0.38	0.38	0.05	0.23
	(TOTAL KJELDAHL	31.0	15	-	1.65	2.20	2.0	3.1	2.20
	(NITRITE	INTERF	0.01	-	0.03	0.03	TR	TR	0.07
	(NITRATE	0.0	0.0	-	3.6	TR	0.0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	125	-	-	40	48	70	59	
IRON	-	2.8	-	-	-	-	-	-	
HARDNESS	-	260	-	-	-	-	-	-	
ALKALINITY	-	280	-	-	-	-	-	-	
PH	-	7.4	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

RAMBO CREEK

WATER QUALITY MONITORING

STATION: R-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 2 BRIDGE
(BURLINGTON)

DATE COLLECTED	11.26.64	2.3.65	3.3.65	5.12.65	7.5.65	7.9.65	7.19.65	7.28.65
TEMPERATURE °C	6.5	0.5	-	16.5	-	23	-	17
DISSOLVED OXYGEN	10.6	12.6	-	11.8	-	8.1	-	9.2
COLIFORMS (MF/100ML)	18,000	1,710	33,000	110,000	14,900	70,000	149,000	97,000
5-DAY BOD	5.0	8.4	4.0	2.4	1.6	2.8	2.0	2.6
TOTAL SOLIDS	540	864	890	784	622	620	840	450
SUSPENDED SOLIDS	92	7	18	241	12	63	302	11
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	84	7.5	5.0	6.2	-	34.0	53.0	8.0
PHOSPHORUS (TOTAL)	1.1	-	0.8	1.6	-	1.48	0.70	0.88
(SOLUBLE)	1.1	-	0.5	0.78	-	0.76	0.60	0.64
(FREE AMMONIA)	0.1	0.2	0.5	0.11	0.20	0.25	0.35	0.26
NITROGENS (TOTAL KJELDAHL)	1.7	0.6	1.7	1.20	1.2	1.10	1.20	1.2
(NITRITE)	0.04	TR	0.06	TR	0.02	0.04	0.06	0.03
(NITRATE)	0.5	0.7	1.5	-	-	1.0	1.16	1.1
PHENOL EQUIVALENTS (PPB)	-	-	-	-	4	-	5	-
CHLORIDES	-	-	-	66	85	88	82	69
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

R A M B O C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: R-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 2 BRIDGE
(BURLINGTON)

DATE COLLECTED	8.3.65	8.16.65	8.19.65	8.31.65	9.14.65	9.28.65
TEMPERATURE °C	-	-	21.5	13	16	10
DISSOLVED OXYGEN	-	-	9.0	7	11	10
COLIFORMS (MF/100ML)	-	23,000	260,000	12,000	40,000	112,000
5-DAY BOD	2.8	4.0	27	1.0	3.0	2.2
TOTAL SOLIDS	518	636	1,046	528	438	626
SUSPENDED SOLIDS	206	-	574	1	14	8
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	140	5.5	1,760	18	13	8.0
PHOSPHORUS	(TOTAL	1.0	-	5.5	0.45	0.57
	(SOLUBLE	0.4	-	4.5	0.24	0.36
NITROGENS	(FREE AMMONIA	0.12	0.16	0.02	0.05	0.08
	(TOTAL KJELDAHL	0.98	0.71	2.6	0.40	0.13
	(NITRITE	TR	0.03	0.02	0.02	0.01
	(NITRATE	0.5	-	0.00	1.0	0.50
PHENOL EQUIVALENTS (PPB)	2	2	-	8	6	2
CHLORIDES	63	-	60	77	-	110
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between;"> AVERAGE MAXIMUM MINIMUM </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

REDHILL CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: R-0.1

LOCATION: ON BEACH ROAD
(HAMILTON)

DATE COLLECTED	10.28.64	11.26.64	2.3.65	3.3.65	5.13.65	7.9.65	7.28.65	8.24.65
TEMPERATURE °C	16	16	11	9.0	17.5	22	20	23
DISSOLVED OXYGEN	4.6	6.6	7.1	7.7	6.8	4.2	4	5+
COLIFORMS (MF/100ML)	38,000,000	1,200,000	850,000	630,300	0	3,400	900	280
5-DAY BOD	125	114	128	23	57	18	52	56
TOTAL SOLIDS	670	542	744	668	638	576	558	520
SUSPENDED SOLIDS	-	99	110	55	24	45	81	63
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	160	71	68	16	48	30.0	53.0	-
PHOSPHORUS (TOTAL)	13.0	9.0	8.5	3.6	7.7	6.4	9.0	7.0
(SOLUBLE)	3.0	1.0	3.3	0.6	5.4	4.5	3.4	3.4
(FREE AMMONIA)	14.7	9.8	9.8	3.2	8.0	5.80	8.2	6.6
NITROGENS (TOTAL KJELDAHL)	35.0	16.0	22	9.9	20.0	8.70	27	21
(NITRITE)	TR	TR	0.1	0.04	0.18	0.16	0.07	0.03
(NITRATE)	TR	0.0	TR	0.3	TR	TR	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	115	74	105	-
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -		-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

RIDEAU RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: R-60.2

LOCATION: ON HWY 43 - EAST OF
SMITH'S FALLS

DATE COLLECTED	12.1.64	6.16.65	7.8.65	7.28.65	8.18.65	9.16.65
TEMPERATURE °C	1	20	23	21.5	24	17.5
DISSOLVED OXYGEN	16.0	9.0	9.4	9.0	7	9.0
COLIFORMS (MF/100ML)	7,600	7,300	210,000	96,000	69,000	60,000
5-DAY BOD	2.1	2.6	2.0	5.4	6.1	2.0
TOTAL SOLIDS	-	174	202	212	140	164
SUSPENDED SOLIDS	8	7	35	26	8	1
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	2.1	2.0	7.0	6.0	6.5	17
PHOSPHORUS	(TOTAL					
	-	0.40	1.08	1.2	1.40	1.08
	(SOLUBLE					
	-	-	0.52	1.0	-	0.80
NITROGENS	(FREE AMMONIA					
	-	0.21	0.70	0.43	0.39	0.33
	(TOTAL KJELDAHL					
	-	2.00	2.30	1.5	2.6	1.40
	(NITRITE					
	-	TR	0.01	TR	TR	0.01
	(NITRATE					
	-	TR	0.2	0.0	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	9	7	18	-	13
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE - MAXIMUM - MINIMUM -					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TAY RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: RT-73.4

LOCATION: AT SCOTCH LINE RD.
BELOW PERTH

DATE COLLECTED	12.1.64	6.16.65	7.8.65	7.28.65	8.18.65	9.16.65
TEMPERATURE °C	1	17	22.5	21.8	23.0	17.0
DISSOLVED OXYGEN	15.4	9.3	8.6	8.8	7	10.0
COLIFORMS (MF/100ML)	1,400	3,900	2,300	5,800	2,800	4,500
5-DAY BOD	2.3	1.7	1.0	1.1	13	1.5
TOTAL SOLIDS	-	110	156	138	202	108
SUSPENDED SOLIDS	6	4	3	3	2	1
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.4	1.1	2.3	2.9	2.6	8.5
PHOSPHORUS (TOTAL)	-	-	0.16	0.12	0.2	0.16
(SOLUBLE)	-	-	-	0.10	0.08	0.08
(FREE AMMONIA)	-	TR	0.05	0.13	0.0	0.05
NITROGENS (TOTAL KJELDAHL)	-	0.84	0.71	0.71	0.71	0.46
(NITRITE)	-	TR	TR	0.0	TR	TR
(NITRATE)	-	0.0	TR	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	4	3	4	9	4
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

KEMPTVILLE CREEK

WATER QUALITY MONITORING

STATION: RK-34.9

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 43 BRIDGE
(KEMPTVILLE)

DATE COLLECTED	12.1.64	6.16.65	7.8.65	7.28.65	8.18.65	9.16.65
TEMPERATURE °C	0	19.5	28.5	21.8	23.0	17.0
DISSOLVED OXYGEN	16.8	5.7	5.1	5.5	6	6
COLIFORMS (MF/100ML)	1,600	9,100	1,900	40,000	23,000	59,000
5-DAY BOD	2.6	2.9	7.2	14	12	10.8
TOTAL SOLIDS	-	296	390	318	318	346
SUSPENDED SOLIDS	7	5	17	26	61	32
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	2.3	1.3	3.3	11.5	16	24
PHOSPHORUS	(TOTAL	-	2.72	3.2	0.90	2.64
	(SOLUBLE	-	2.2	3.0	-	1.92
NITROGENS	(FREE AMMONIA	-	0.42	0.64	0.85	0.60
	(TOTAL KJELDAHL	-	1.80	3.60	4.1	3.60
	(NITRITE	-	TR	TR	TR	TR
	(NITRATE	-	TR	TR	0.00	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	14	24	23	45	22
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ROUGE RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: R-0,6

LOCATION: R.R. TRESTLE-
FERGUSON'S BEACH

DATE COLLECTED	12.3.64	2.19.65	3.25.65	6.18.65	7.6.65	7.26.65	8.16.65
TEMPERATURE °C	1	2	1	16	15	22.6	19.0
DISSOLVED OXYGEN	13.2	12.8	13.6	9.6	10.2	11.0	-
COLIFORMS (MF/100ML)	90	40	30	114	400	76	44
5-DAY BOD	2.6	3.1	3	1.8	1.4	1.7	2.2
TOTAL SOLIDS	524	308	426	272	322	384	362
SUSPENDED SOLIDS	-	12	20	44	38	22	25
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	6.5	-	-	9.0	32.0	17.0	8.0
PHOSPHORUS (TOTAL)	.16	.34	0.46	-	0.50	0.20	0.24
(SOLUBLE)	0.1	0.26	-	-	-	0.08	0.10
(FREE AMMONIA)	0.1	0.7	0.8	0.06	0.13	0.03	0.05
NITROGENS (TOTAL KJELDAHL)	0.9	1.7	0.91	0.52	0.58	0.46	0.46
(NITRITE)	TR	0.01	0.01	TR	0.02	0.0	0.02
(NITRATE)	0.3	0.6	0.4	0.0	TR	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	34	31	34	31
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	248
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

RUSCOM RIVER

WATER QUALITY MONITORING

STATION: R-0.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT TECUMSEH ROAD

DATE COLLECTED	10.7.64	12.2.64	3.18.65	6.23.65	7.20.65	8.11.65	9.22.65	
TEMPERATURE °C	10.5	1.5	1.5	24.0	23.5	22.0	24.0	
DISSOLVED OXYGEN	10.4	14.8	12.4	8.6	9.0	9.0	6.5	
COLIFORMS (MF/100ML)	180	1,100	11,000	900	800	530	1,400	
5-DAY BOD	7.4	5.8	3.0	2.0	1.6	2.2	3.0	
TOTAL SOLIDS	438	456	372	522	452	394	510	
SUSPENDED SOLIDS	43	24	98	61	52	71	92	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	43	9.0	42	10.0	20.0	59	65.0	
PHOSPHORUS	(TOTAL	.28	.12	0.60	0.40	0.28	.22	0.60
	(SOLUBLE	.12	.10	0.12	0.10	0.14	.22	0.20
NITROGENS	(FREE AMMONIA	0.05	0.2	0.35	0.20	0.26	0.16	0.20
	(TOTAL KJELDAHL	1.10	0.9	1.65	1.05	1.4	0.98	1.00
	(NITRITE	TR	TR	0.03	0.10	0.0	TR	0.01
	(NITRATE	0.0	0.0	3.2	0.0	0.0	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	44	-	40	47	32	51	
IRON	-	0.60	-	-	-	-	-	
HARDNESS	-	340	-	-	-	-	-	
ALKALINITY	-	152	-	-	-	-	-	
PH	-	7.9	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SALEM CREEK

WATER QUALITY MONITORING

STATION: SM-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: S.E. OF
COLBORNE

DATE COLLECTED	11.30.64	6.15.65	7.7.65	7.27.65	8.17.65	9.14.65
TEMPERATURE °C	0	14	16.5	21.6	20.5	17.0
DISSOLVED OXYGEN	12.8	10.5	10.2	10.2	8	11
COLIFORMS (MF/100ML)	110	110	-	106	170	220
5-DAY BOD	1.3	1.0	0.7	0.7	2.2	1.8
TOTAL SOLIDS	276	236	240	226	206	264
SUSPENDED SOLIDS	-	6	7	30	1	17
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.4	2.9	2.1	1.1	-	5.0
PHOSPHORUS	(TOTAL	0.04	-	0.36	0.10	0.12
	(SOLUBLE	0.02	-	-	-	0.08
NITROGENS	(FREE AMMONIA	0.0	TR	TR	0.03	0.03
	(TOTAL KJELDAHL	0.07	0.33	0.33	0.84	0.33
	(NITRITE	TR	TR	0.01	TR	TR
	(NITRATE	1.0	0.45	0.50	0.24	0.15
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	7	6	8	7	7
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SALMON RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: SA-1.8

LOCATION: AT BRIDGE IN
SHANNONVILLE

DATE COLLECTED	11.30.64	6.15.65	7.7.65	7.27.65	8.17.65	9.14.65
TEMPERATURE °C	1	17	22.5	25	23.5	20.0
DISSOLVED OXYGEN	14.5	9.1	10.2	9.2	7	9
COLIFORMS (MF/100ML)	70	34	*	1,000	1,900	6,100,000
5-DAY BOD	1.6	1.0	0.5	0.7	0.8	18
TOTAL SOLIDS	238	132	182	214	180	266
SUSPENDED SOLIDS	-	3	8	8	8	13
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	2.3	1.7	2.6	2.3	3.1	11.5
PHOSPHORUS (TOTAL)	0.08	0.16	0.16	0.12	0.08	0.72
(SOLUBLE)	0.04	-	0.05	0.06	0.04	0.08
(FREE AMMONIA)	0.0	0.11	0.13	0.06	0.05	0.10
NITROGENS (TOTAL KJELDAHL)	0.3	1.0	0.71	0.84	0.46	2.60
(NITRITE)	0.0	TR	TR	0.0	TR	0.0
(NITRATE)	0.0	TR	0.20	0.0	0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	7	11	15	15	29
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	39.8	78.4	29.8	44.3	9.4	14.3
YEARLY FLOW (CFS)	AVERAGE	275	MAXIMUM	1,820	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

S A N D U S K C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: S-0,6

LOCATION: AT CHEAPSIDE ROAD

DATE COLLECTED	10.5.64	11.30.64	1.26.65	5.19.65	7.6.65	7.26.65
TEMPERATURE °C	10.5	0.5	0.5	20	21.0	22.0
DISSOLVED OXYGEN	10.4	13.8	12.0	9.0	10.2	10.4
COLIFORMS (MF/100ML)	8	70	280	70	590	1,600
5-DAY BOD	1.1	2.7	2.8	2.0	0.9	1.2
TOTAL SOLIDS	234	452	432	294	342	320
SUSPENDED SOLIDS	8	5	16	41	21	17
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	9.0	2.6	11.5	6.0	9.0	7.5
PHOSPHORUS	{	TOTAL	.12			
			.08		0.06	0.17
	{	SOLUBLE	.16			
			.02		-	0.09
NITROGENS	{	FREE AMMONIA	.08			
			.05		TR	.10
			.71		0.40	0.52
			.9			
	{	TOTAL KJELDAHL	0.0	0.20	0.40	0.52
			0.0	0.64	0.40	0.52
	{	NITRITE	0.0	0.02	TR	TR
			0.0	0.0	0.40	0.30
	{	NITRATE	0.0	0.0		
			0.0	0.0		
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	48	-	29	18	19
IRON	-	.18	-	-	-	-
HARDNESS	-	286	-	-	-	-
ALKALINITY	-	168	-	-	-	-
PH	-	8.0	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SAUBLE RIVER

WATER QUALITY MONITORING

STATION: S-0.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT LAKE HURON

DATE COLLECTED	10.8.64	12.17.64	2.23.65	6.29.65	7.20.65	8.5.65	9.22.65
TEMPERATURE °C	9.5	0.5	0.1	20.9	18.0	21.8	21.0
DISSOLVED OXYGEN	11.2	13.0	12.6	10.8	10.4	5.8	9.0
COLIFORMS (MF/100ML)	27	280	40	256	150	290	190
5-DAY BOD	1.2	2.3	2.3	0.7	1.5	0.8	1.0
TOTAL SOLIDS	222	264	272	2,402	244	306	246
SUSPENDED SOLIDS	-	10	-	10	4	10	2
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	3.8	9.0	-	2.1	2.3	2.6	2.6
PHOSPHORUS (TOTAL)	0.08	-	0.04	0.08	0.12	0.30	0.12
(SOLUBLE)	0.06	-	0.0	-	0.10	0.04	0.08
(FREE AMMONIA)	TR	.1	0.1	0.05	.08	0.03	0.06
NITROGENS (TOTAL KJELDAHL)	0.39	.8	0.4	0.84	0.71	0.71	0.33
(NITRITE)	0.0	TR	TR	TR	0.0	0.00	TR
(NITRATE)	0.0	0.7	0.5	-	0.2	0.00	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	5	15	6	8
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	77.2	370	681	74.0	63.0	54.4	39.0
YEARLY FLOW (CFS)	AVERAGE	454	MAXIMUM	5,240	MINIMUM	35.8	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SAUGEE RIVER

WATER QUALITY MONITORING

STATION: S-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGE HWY 21

DATE COLLECTED	10.8.64	12.15.64	1.28.65	2.23.65	3.23.65	6.29.65	7.21.65	8.5.65	9.22.65
TEMPERATURE °C	9	0.5	0.25	0.1	1.6	23.5	20.0	22.0	23.0
DISSOLVED OXYGEN	11.2	13.3	12.5	13.6	14.0	11.0	9.2	5.6	8.0
COLIFORMS (MF/100ML)	26	870	690	254	120	28	40	70	390
5-DAY BOD	1.5	2.8	1.2	2.0	1.9	0.6	1.2	1.6	0.3
TOTAL SOLIDS	458	324	372	322	356	406	356	472	340
SUSPENDED SOLIDS	-	10	1	-	13	22	12	21	10
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	7.0	10.5	-	-	-	4.0	11.5	5.5	5.0
PHOSPHORUS	(TOTAL	0.08	.14	0.1	0.06	0.06	0.10	0.14	0.20
	(SOLUBLE	0.06	0.05	0.0	0.04	-	0.10	0.10	0.04
NITROGENS	(FREE AMMONIA	0.0	0.1	0.1	0.1	0.05	0.02	0.3	0.03
	(TOTAL KJELDAHL	0.2	0.7	0.3	0.7	0.23	0.40	0.58	0.46
	(NITRITE	TR	TR	TR	TR	TR	0.0	TR	TR
	(NITRATE	0.25	1.2	1.0	0.8	0.72	-	0.15	0.34
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	7	9	7	10
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>								

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TEESWATER RIVER

WATER QUALITY MONITORING

STATION: ST-62.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BELOW DAM (WEST OF
TEESWATER)

DATE COLLECTED	10.8.64	12.17.64	1.28.65	2.23.65	3.24.65	6.29.65	7.20.65	8.5.65	9.21.65
TEMPERATURE °C	9	1.0	0.25	-	1	24.6	23.0	22.0	23.0
DISSOLVED OXYGEN	13.2	13.6	14.2	-	13.8	19.0	18.6	6.4	9.0
COLIFORMS (MF/100ML)	71	280	860	3,700	96	172	42	86	160
5-DAY BOD	1.9	2.8	1.0	1.8	3.1	2.4	1.5	0.9	1.0
TOTAL SOLIDS	298	324	314	322	330	642	246	348	296
SUSPENDED SOLIDS	-	4	3	2	3	11	3	4	2
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.8	3.1	1.7	1.4	0.7	3.6	2.5	1.1	3.1
PHOSPHORUS	{ TOTAL		-	-	-	0.38	0.20	0.40	0.36
	{ SOLUBLE		-	-	-	-	0.16	0.20	0.32
NITROGENS	{ FREE AMMONIA		-	-	-	0.08	.16	0.02	0.13
	{ TOTAL KJELDAHL		-	-	-	1.6	0.98	0.58	0.71
	{ NITRITE		-	-	-	0.02	.01	0.02	0.01
	{ NITRATE		-	-	-	0.4	1.0	0.72	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	7	9	7	7
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SAUGEE N RIVER

WATER QUALITY MONITORING

STATION: S-47.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT YONGE ST.
(WALKERTON)

DATE COLLECTED	10.8. 64	12.17.64	1.29.65	3.25.65	7.2.65	7.22.65	8.4.65	9.21.65
TEMPERATURE °C	8	0.5	.25	1.0	21.0	19.8	19.2	22.0
DISSOLVED OXYGEN	11.6	13.4	13.2	14.0	12.4	12.2	5.2	9.0
COLIFORMS (MF/100ML)	7,800	27,000	12,000	4,300	6,300	4,900	8,000	54,000
5-DAY BOD	1.4	3.4	2.8	2.5	0.5	0.7	0.9	0.8
TOTAL SOLIDS	476	394	426	366	-	376	504	384
SUSPENDED SOLIDS	-	9	5	8	8	4	7	11
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	2.8	5.5	1.4	4	1.3	1.8	1.7	4.5
PHOSPHORUS	(TOTAL	-	-	-	0.14	0.12	0.18	0.16
	(SOLUBLE	-	-	-	-	0.06	-	0.12
NITROGENS	(FREE AMMONIA	-	-	-	0.16	0.10	0.02	0.05
	(TOTAL KJELDAHL	-	-	-	0.40	0.20	0.20	0.33
	(NITRITE	-	-	-	TR	0.0	TR	TR
	(NITRATE	-	-	-	0.24	0.38	0.36	0.24
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	6	8	7	8
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	233	544	457	688	350	277	289	420
YEARLY FLOW (CFS)		AVERAGE	936		MAXIMUM	9,060	MINIMUM	185

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SAUGEE RIVER

WATER QUALITY MONITORING

STATION: S-58.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BRIDGE ON Hwy 4

DATE COLLECTED	10.9.84	12.17.84	7.2.85	7.22.85	8.4.85	9.21.85
TEMPERATURE °C	8.50	.5	20.5	19.0	20.0	21.0
DISSOLVED OXYGEN	12.4	12.6	11.2	9.6	5.8	7.0
COLIFORMS (MF/100ML)	3,300	690	142	2,900	140	360
5-DAY BOD	1.6	3.3	0.4	0.7	1.2	0.9
TOTAL SOLIDS	292	282	292	270	272	244
SUSPENDED SOLIDS	-	3	-	5	7	4
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	2.3	2.1	1.8	2.3	2.5	2.6
PHOSPHORUS { TOTAL	-	-	0.14	0.14	0.22	0.20
{ SOLUBLE	-	-	-	.06	-	0.20
NITROGENS {	FREE AMMONIA	-	-	0.06	0.06	0.02
	TOTAL KJELDAHL	-	-	0.26	0.26	0.20
	NITRITE	-	-	0.01	0.01	TR
	NITRATE	-	-	0.60	0.64	0.50
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	5	7	6	7
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-
						MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SAUGEEEN RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: S-78.2

LOCATION: AT HWY 4, TOWN OF DURHAM

DATE COLLECTED	10.9.64	12.17.64	1.29.65	3.25.65	7.2.65	7.22.65	8.4.65	9.21.65 ²²
TEMPERATURE °C	8.50	.5	.25	1.0	20.5	19.0	19.5	22.5
DISSOLVED OXYGEN	10.4	12.8	13.0	13.2	11.2	10.6	5.2	8.0
COLIFORMS (MF/100ML)	174	840	1,230	3,300	124	124	1,200	5,000
5-DAY BOD	1.7	3.1	2.1	2.4	0.4	0.6	1.6	0.7
TOTAL SOLIDS	262	286	298	278	292	266	358	252
SUSPENDED SOLIDS	-	2	1	8	10	11	17	2
CONDUCTIVITY (MHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	2.6	1.7	1.3	6.5	1.5	3.5	2.9	3.6
PHOSPHORUS { TOTAL	-	-	-	-	0.10	0.18	0.15	0.12
{ SOLUBLE	-	-	-	-	-	-	-	0.05
NITROGENS { FREE AMMONIA	-	-	-	-	0.10	0.06	0.03	0.26
{ TOTAL KJELDAHL	-	-	-	-	0.33	0.84	0.26	1.70
{ NITRITE	-	-	-	-	TR	TR	TR	TR
{ NITRATE	-	-	-	-	0.30	1.3	0.40	0.20
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-
IRON	-	-	-	-	6	8	8	7
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -		-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ROCKY SAUGEEEN RIVER

WATER QUALITY MONITORING

STATION: SR-89.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: CONCESSION RD.
S.W. OF MARKDALE

DATE COLLECTED	10.8.64	12.15.64	1.29.65	3.25.65	6.30.65	7.22.65	8.4.65	8.24.65
TEMPERATURE °C	7.5	.75	.5	2.0	19	16.4	16.8	17.5
DISSOLVED OXYGEN	12.8	13	12.8	13.4	10.8	10.4	6.4	10.0
COLIFORMS (MF/100ML)	18	390	30	18	90	94	64	28
5-DAY BOD	1.8	2.1	2.3	2.2	1.1	0.7	1.1	1.1
TOTAL SOLIDS	288	280	282	266	396	300	284	274
SUSPENDED SOLIDS	-	1	1	1	3	5	5	2
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.4	0.8	0.8	0.8	1.5	1.1	2.0	-
PHOSPHORUS (TOTAL)	-	.14	-	-	0.06	0.08	0.08	0.08
PHOSPHORUS (SOLUBLE)	-	.07	-	-	-	0.06	-	0.08
(FREE AMMONIA)	-	-	-	-	0.05	0.05	0.02	0.00
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	0.46	0.60	0.13	0.20
(NITRITE)	-	-	-	-	0.01	TR	TR	TR
(NITRATE)	-	-	-	-	-	0.26	1.0	0.70
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	5	6	5	4
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SHELTER VALLEY CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: SV-0.8

LOCATION: AT BRIDGE ON CON. RD.
SOUTH OF GRAFTON

DATE COLLECTED	11.30.64	6.15.65	7.7.65	7.27.65	8.17.65	9.14.65
TEMPERATURE °C	0	14	16	22.0	22.5	17.5
DISSOLVED OXYGEN	11.8	10.2	9.8	11.0	10	12.0
COLIFORMS (MF/100ML)	50	174	-	168	102	330
5-DAY BOD	1.7	0.9	0.1	0.7	1.4	0.2
TOTAL SOLIDS	284	254	352	226	208	256
SUSPENDED SOLIDS	-	4	6	50	12	6
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.7	1.4	1.1	3.1	-	-
PHOSPHORUS (TOTAL)	0.04	-	0.08	0.12	0.12	0.16
(SOLUBLE)	0.02	-	0.02	0.08	0.08	0.08
(FREE AMMONIA)	0.0	TR	TR	0.05	0.02	TR
NITROGENS (TOTAL KJELDAHL)	0.07	0.40	0.20	0.71	0.26	0.20
(NITRITE)	TR	TR	0.01	TR	0.00	TR
(NITRATE)	0.4	0.22	0.25	TR	0.00	0.16
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	4	4	6	5	4
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SIX MILE CREEK

WATER QUALITY MONITORING

STATION: S-0,8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT LAKESHORE RD.

DATE COLLECTED	10.29.64	2.4.65	3.4.65	7.8.65	7.28.65	8.25.65	
TEMPERATURE °C	12	0.5	2.5	19.5	18.5	18	
DISSOLVED OXYGEN	7.4	12.7	10.8	3.8	4.4	7.5	
COLIFORMS (MF/100ML)	700	41,000	6,500	2,500	-	35,000	
5-DAY BOD	1.3	2.8	5.4	1.8	2.0	1.8	
TOTAL SOLIDS	752	1,110	326	752	702	854	
SUSPENDED SOLIDS	-	7	85	4	23	5	
CONDUCTIVITY (μMHOS/ CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	10.5	5.5	34	3.8	8.5	-	
PHOSPHORUS	{TOTAL	.17	.38	1.12	0.54	2.36	0.20
	{SOLUBLE	.13	-	0.64	0.50	2.08	0.04
NITROGENS	{FREE AMMONIA	0.0	0.2	0.7	0.24	0.46	0.05
	{TOTAL KJELDAHL	0.3	0.8	5.0	0.52	1.7	0.71
	{NITRITE	0.01	0.01	0.02	TR	0.02	TR
	{NITRATE	0.0	1.0	0.5	0.0	TR	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	
CHLORIDES	-	-	-	104	117	-	
IRON	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	
PH	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE - MAXIMUM -						

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SIXTEEN MILE CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: S-5.0

LOCATION: AT BACK STREET
NEAR RODNEY

DATE COLLECTED	7.23.64	6.24.65	7.21.65	8.12.65	9.22.65
TEMPERATURE °C	24	22.0	25	25	25.3
DISSOLVED OXYGEN	14.6	11.1	19.0	11	8.9
COLIFORMS (MF/100ML)	-	73,000	41,000	17,000	84,000
5-DAY BOD	-	4.8	2.4	4.4	7.6
TOTAL SOLIDS	-	618	476	452	796
SUSPENDED SOLIDS	-	167	13	34	386
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	-	6.5	7.5	21	84.0
PHOSPHORUS (TOTAL)	-	1.16	0.38	2.48	11
(SOLUBLE)	-	0.80	0.36	2.16	6
(FREE AMMONIA)	-	0.22	0.22	0.43	1.31
NITROGENS (TOTAL KJELDAHL)	-	1.30	1.20	1.6	3.07
(NITRITE)	-	0.1	0.1	0.15	0.15
(NITRATE)	-	0.25	0.26	0.40	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	36	28	31	42
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SIXTEEN MILE CREEK

WATER QUALITY MONITORING

STATION: S-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 4TH AVENUE - LOUTH TWP.

DATE COLLECTED	2.4.65	3.4.65	5.18.65	7.8.65
TEMPERATURE °C	0.5	1.5	16.5	18.5
DISSOLVED OXYGEN	12.6	11.5	9.0	7.0
COLIFORMS (MF/100ML)	270	3,100	90	1,500
5-DAY BOD	3.7	3.0	0.9	2.2
TOTAL SOLIDS	280	202	502	-
SUSPENDED SOLIDS	17	51	29	-
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-
TURBIDITY (UNITS)	9.0	27	5.5	13.0
PHOSPHORUS { TOTAL	.24	0.49	0.14	0.20
{ SOLUBLE	-	0.40	0.06	0.06
NITROGENS { FREE AMMONIA	0.2	0.3	0.11	0.11
{ TOTAL KJELDAHL	0.7	5.0	0.77	1.00
{ NITRITE	TR	0.01	TR	0.04
{ NITRATE	0.7	0.5	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-
CHLORIDES	-	-	51	111
IRON	-	-	-	-
HARDNESS	-	-	-	-
ALKALINITY	-	-	-	-
PH	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-
AVERAGE	-	-	-	-
MAXIMUM	-	-	-	-
MINIMUM	-	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SMITHFIELD CREEK

WATER QUALITY MONITORING

STATION: S-0.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT ROAD TO
HWY 33

DATE COLLECTED	11.30.64	6.15.65	7.7.65	7.27.65	8.17.65	9.14.65
TEMPERATURE °C	0.0	16	15.5	20.5	19	17.0
DISSOLVED OXYGEN	13.1	9.7	9.4	12.0	9	11
COLIFORMS (MF/100ML)	280	202	*	1,900	13,000	10,000
5-DAY BOD	1.7	1.3	0.5	0.9	0.8	1.3
TOTAL SOLIDS	312	380	336	140	356	346
SUSPENDED SOLIDS	-	16	26	54	12	36
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.8	2.6	3.3	1.3	2.6	4.5
PHOSPHORUS (TOTAL)	0.06	-	0.32	0.20	0.12	0.12
(SOLUBLE)	0.02	-	0.10	0.08	0.08	0.08
(FREE AMMONIA)	0.0	TR	TR	0.03	0.00	0.06
NITROGENS (TOTAL KJELDAHL)	0.1	1.15	0.40	0.98	0.26	0.26
(NITRITE)	TR	TR	0.01	TR	TR	TR
(NITRATE)	0.3	0.0	0.50	0.28	0.00	0.24
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	14	14	17	21	16
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

S. NATION RIVER

WATER QUALITY MONITORING

STATION: N-39.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BELOW CASSELMAN

DATE COLLECTED	12.1.64	7.8.65	9.30.65
TEMPERATURE °C	0.5	-	15.0
DISSOLVED OXYGEN	11.2	-	4.6
COLIFORMS (MF/100ML)	2,500	244,000	740,000
5-DAY BOD	2.7	8.0	78
TOTAL SOLIDS	-	406	464
SUSPENDED SOLIDS	8	18	62
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-
TURBIDITY (UNITS)	1.8	9.5	50.0
PHOSPHORUS { TOTAL	-	-	7.9
{ SOLUBLE	-	-	6.8
(FREE AMMONIA	-	-	-
{ TOTAL KJELDAHL	-	0.22	3.28
NITROGENS { NITRITE	-	2.6	9.9
{ NITRATE	-	TR	TR
		TR	TR
PHENOL EQUIVALENTS (PPB)	-	-	-
CHLORIDES	-	-	-
IRON	-	-	41
HARDNESS	-	-	-
ALKALINITY	-	-	-
PH	-	7.7	-
SULPHATE AS SO ₄	-	52	-
DAILY FLOW (CFS)	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

S. NATION RIVER

WATER QUALITY MONITORING

STATION: N-58.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BELOW CHESTERVILLE

DATE COLLECTED	12.1.64	7.8.65	9.30.65
TEMPERATURE °C	0	-	11.0
DISSOLVED OXYGEN	15.6	-	5.0
COLIFORMS (MF/100ML)	9,900	-	480,000
5-DAY BOD	2.3	11	14
TOTAL SOLIDS	-	386	498
SUSPENDED SOLIDS	7	9	66
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-
TURBIDITY (UNITS)	1.5	6.0	16.0
PHOSPHORUS (TOTAL)	-	-	3.0
(SOLUBLE)	-	-	1.6
(FREE AMMONIA)	-	0.20	0.23
NITROGENS (TOTAL KJELDAHL)	-	2.3	4.00
(NITRITE)	-	TR	0.01
(NITRATE)	-	TR	TR
PHENOL EQUIVALENTS (PPB)	-	-	-
CHLORIDES	-	-	25
IRON	-	-	-
HARDNESS	-	-	-
ALKALINITY	-	-	-
PH	-	8.3	-
SULPH. AS SO ₄	-	25	-
DAILY FLOW (CFS)	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SCOTCH RIVER

WATER QUALITY MONITORING

STATION: NS-32.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: SCOTCH R. COUNTY RD. S.
OF ST. ISDORE DE PRESCOTT

DATE COLLECTED	3.8.65	3.15.65	3.22.65	3.30.65	4.6.65	4.14.65	4.27.65
TEMPERATURE °C	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	270	50	-	0	-	-	20
5-DAY BOD	-	2.8	-	1.5	4.2	1.8	1.1
TOTAL SOLIDS	-	198	-	302	180	202	226
SUSPENDED SOLIDS	-	-	-	3	38	28	5
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	BROKEN		IN	TRANSIT			
PHOSPHORUS (TOTAL)	BROKEN		IN	TRANSIT			
PHOSPHORUS (SOLUBLE)	BROKEN		IN	TRANSIT			
(FREE AMMONIA)	-	0.27	0.20	0.21	0.20	0.27	0.06
(TOTAL KJELDAHL)	-	0.77	0.53	0.62	1.2	1.0	0.78
(NITRITE)	-	0.01	TR	TR	0.01	TR	0.0
(NITRATE)	-	0.5	TR	TR	0.12	0.1	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	TR	-	-	-	-
IRON	-	-	0.26	-	-	-	-
HARDNESS	-	-	186	-	-	-	-
ALKALINITY	-	-	116	-	-	-	-
PH	-	-	6.9	-	-	-	-
SULPHATE AS SO ₄	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-		MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SCOTCH

RIVER

WATER QUALITY MONITORING

STATION: NS-22.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: SCOTCH R. COUNTY RD. S. OF
ST. ISDORE DE PRESCOTT

DATE COLLECTED	5.6.65	5.11.65	5.18.65	6.8.65	6.23.65	7.8.65	9.16.65		
TEMPERATURE °C	-	-	-	-	-	22.3	16.5		
DISSOLVED OXYGEN	-	-	-	-	-	2.8	11.0		
COLIFORMS (MF/100ML)	110	900	178	460	-	7,800	350		
5-DAY BOD	0.4	1.4	0.9	1.0	1.2	3.6	1.1		
TOTAL SOLIDS	248	288	-	252	258	338	332		
SUSPENDED SOLIDS	4	8	-	1	9	58	1		
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-		
TURBIDITY (UNITS)	-	-	-	-	-	18.0	8.5		
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	-		
PHOSPHORUS (SOLUBLE)	-	-	-	-	-	-	-		
(FREE AMMONIA	0.16	0.06	-	0.32	0.38	0.14	TR		
NITROGENS (TOTAL KJELDAHL	1.0	0.90	0.26	1.10	1.50	1.8	0.60		
(NITRITE	0.0	0.0	0.0	0.0	TR	0.01	TR		
(NITRATE	TR	TR	-	0.05	TR	TR	TR		
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-		
CHLORIDES	-	-	-	-	-	-	5-		
IRON	-	-	-	-	-	-	-		
HARDNESS	-	-	-	-	-	-	-		
ALKALINITY	-	-	-	-	-	-	-		
PH	-	-	-	-	-	7.9	-		
SULPHATE AS SO ₄	-	-	-	-	-	23	-		
DAILY FLOW (CFS)	-	-	-	-	-	-	-		
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SCOTCH RIVER

WATER QUALITY MONITORING

STATION: NS-30.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT CONCESSION RD. 17, DOWNSTREAM
FROM THE VILLAGE OF ST. ISIDORE
DE PRESCOTT

DATE COLLECTED	3.2.65	3.8.65	3.15.65	3.22.65	3.28.65	4.6.65	4.14.65	4.27.65
TEMPERATURE °C	-	-	-	-	-	-	-	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	-
COLIFORMS (MF/100ML)	0	129,000	1,730	-	16	-	-	2,200
5-DAY BOD	6.4	10	6.3	-	2.7	4.4	3.4	2.0
TOTAL SOLIDS	464	176	-	-	362	180	276	256
SUSPENDED SOLIDS	18	68	-	-	8	38	63	9
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	-
PHOSPHORUS (TOTAL)	-	-	-	-	-	-	-	-
(SOLUBLE)	-	-	-	-	-	-	-	-
(FREE AMMONIA)	-	0.96	1.7	0.51	0.42	0.30	0.35	0.13
(TOTAL KJELDAHL)	-	1.7	2.8	0.93	1.20	1.7	1.3	0.78
(NITRITE)	-	0.04	0.07	TR	TR	0.01	TR	0.0
(NITRATE)	0.5	0.3	0.15	TR	TR	0.12	0.1	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	TR	-	-	-	-
IRON	-	-	-	0.26	-	-	-	-
HARDNESS	-	-	-	192	-	-	-	-
ALKALINITY	-	-	-	130	-	-	-	-
PH	-	-	-	6.9	-	-	-	-
SULPHATE AS SO ₄	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SCOTCH RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: NS-30.2

LOCATION: AT CONCESSION RD. 17 DOWNSTREAM
FROM THE VILLAGE OF ST. ISIDORE
DE FRESCOTT

DATE COLLECTED	5.6.65	5.11.65	5.18.65	6.8.65	6.23.65	7.8.65	9.16.65	
TEMPERATURE °C	-	-	-	-	-	23.8	16.0	
DISSOLVED OXYGEN	-	-	-	-	-	4.8	3.0	
COLIFORMS (MF/100ML)	135,000	9,700,000	970,000	700,000	-	11,000	14,000	
5-DAY BOD	5.0	20	3.6	86	5.6	2.0	1.6	
TOTAL SOLIDS	312	364	334	492	416	478	384	
SUSPENDED SOLIDS	18	39	17	114	19	8	15	
CONDUCTIVITY ($\mu\text{MHOS}/\text{CM}^3$)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	-	-	-	-	-	2.9	11.5	
PHOSPHORUS	(TOTAL	-	-	-	-	-	0.92	
	(SOLUBLE	-	-	-	-	-	0.76	
NITROGENS	(FREE AMMONIA	2.50	1.80	0.30	5.12	0.98	0.35	
	(TOTAL KJELDAHL	3.3	6.60	1.3	15.0	2.30	2.6	
	(NITRITE	0.0	0.0	0.0	TR	0.01	TR	
	(NITRATE	TR	0.15	TR	0.05	TR	TR	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	-	-	16	
IRON	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	
PH	-	-	-	-	-	7.6	-	
SULPHATE AS SO_4	-	-	-	-	-	21	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DUNVEGAN CREEK

WATER QUALITY MONITORING

STATION: NSD-31.8-

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 50' DOWNSTREAM OF STORM
SEWER OUTFALL AT ST. ISIDORE

DATE COLLECTED	3.30.85	4.6.85	4.14.85	4.27.85	5.11.85	5.18.85	6.8.85	7.9.85	9.16.85
TEMPERATURE °C	-	-	-	-	-	-	-	17.8	-
DISSOLVED OXYGEN	-	-	-	-	-	-	-	0.0	-
COLIFORMS (MF/100ML)	-	7,300	-	250,000	80,000	21,100	92,000	-	45,000
5-DAY BOD	3.8	4.2	1.5	1.8	1.7	2.1	28	56	2.3
TOTAL SOLIDS	348	172	410	386	884	466	530	928	518
SUSPENDED SOLIDS	6	43	61	6	12	9	40	80	21
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	-	-	-	-	-	-	27.0	26
PHOSPHORUS	(TOTAL	-	-	-	-	-	-	-	0.28
	(SOLUBLE	-	-	-	-	-	-	-	0.24
NITROGENS	(FREE AMMONIA	0.90	0.32	0.43	0.13	0.13	0.58	1.92	0.06
	(TOTAL KJELDAHL	1.65	1.7	1.5	0.78	1.15	1.3	3.8	0.52
	(NITRITE	TR	0.01	0.02	TR	TR	0.01	TR	TR
	(NITRATE	0.3	0.12	0.28	TR	TR	0.0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-	-	11
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
SULPHATE	-	-	-	-	-	-	-	7.5	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	31	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

DUNVEGAN CREEK

WATER QUALITY MONITORING

STATION: NSD-31.8+

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: 50' UPSTREAM FROM STORM
SEWER OUTFALL AT ST.
ISIDORE

DATE COLLECTED	6.23.65	7.9.65	9.16.65
TEMPERATURE °C	-	17.5	13.5
DISSOLVED OXYGEN	-	1.0	9.0
COLIFORMS (MF/100ML)	-	10,600,000	45,000
5-DAY BOD	88	60	2.3
TOTAL SOLIDS	1,356	986	518
SUSPENDED SOLIDS	174	100	21
CONDUCTIVITY (MICROS/CM ³)	-	-	-
TURBIDITY (UNITS)	-	34.0	28
PHOSPHORUS { TOTAL	-	-	0.28
{ SOLUBLE	-	-	0.24
NITROGENS { FREE AMMONIA	21.2	18.0	0.06
{ TOTAL KJELDAHL	61.0	43.0	0.52
{ NITRITE	TR	TR	TR
{ NITRATE	TR	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-
CHLORIDES	-	-	11
IRON	-	-	-
HARDNESS	-	-	-
ALKALINITY	-	-	-
PH	-	7.5	-
SULPHATE AS SO ₄	-	21	-
DAILY FLOW (CFS)	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SOUTH OTTER CREEK

WATER QUALITY MONITORING

STATION: S0-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT NEW LAKE RD. E.
OF PORT BURWELL

DATE COLLECTED	11.30.84	5.20.85	7.8.85	7.26.85	8.26.85	
TEMPERATURE °C	0.0	15.0	20.2	23.5	19.5	
DISSOLVED OXYGEN	15	9.4	8.8	7.4	8	
COLIFORMS (MF/100ML)	22	130	8,300	1,000	1,100	
5-DAY BOD	2.1	1.3	1.0	0.6	1.4	
TOTAL SOLIDS	282	290	292	280	284	
SUSPENDED SOLIDS	3	34	37	28	38	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	
TURBIDITY (UNITS)	1.8	6.0	26.0	26.0	-	
PHOSPHORUS (TOTAL	0.06	0.26	0.30	0.18	0.20	
(SOLUBLE	0.02	-	-	0.11	0.04	
(FREE AMMONIA	TR	0.13	0.03	.08	TR	
NITROGENS (TOTAL KJELDAHL	0.3	0.40	0.33	0.84	0.20	
(NITRITE	TR	TR	TR	TR	TR	
(NITRATE	0.3	TR	0.20	TR	TR	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	-	7	5	6	4	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	18	23.6	14.9	8.8	11.3	
YEARLY FLOW (CFS)	AVERAGE	50.5	MAXIMUM	1,110	MINIMUM	2.3

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ST. LAWRENCE RIVER

WATER QUALITY MONITORING

STATION: SL-87.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BELOW BROCKVILLE

DATE COLLECTED	12.1.64	6.16.65	7.8.65	7.28.65	8.18.65	9.15.65
TEMPERATURE °C	-	15	19	19.8	21.0	18.0
DISSOLVED OXYGEN	-	9.9	10.2	9.4	9.0	9
COLIFORMS (MF/100ML)	40	22	88	180,000	56	430
5-DAY BOD	1.5	1.3	0.5	1.0	0.7	0.3
TOTAL SOLIDS	-	200	200	198	204	216
SUSPENDED SOLIDS	2	4	4	2	1	1
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.5	1.7	2.0	3.3	2.1	1.8
PHOSPHORUS (TOTAL)	-	-	0.12	-	0.12	0.28
(SOLUBLE)	-	-	0.04	-	0.12	0.08
(FREE AMMONIA)	-	0.05	0.05	0.13	0.00	TR
NITROGENS (TOTAL KJELDAHL)	-	0.40	0.40	0.28	0.33	0.28
(NITRITE)	-	TR	TR	TR	TR	TR
(NITRATE)	-	0.0	0.1	0.0	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	26	27	31	50	28
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ST. LAWRENCE RIVER

WATER QUALITY MONITORING

STATION: SL-73.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BELOW PRESCOTT

DATE COLLECTED	6.16.65	7.8.65	7.28.65	8.18.65	9.15.65	
TEMPERATURE °C	15	21	30.5	23.5	17.0	
DISSOLVED OXYGEN	8.8	8.6	8.8	9	8.0	
COLIFORMS (MF/100ML)	310	120	228	210	12,000	
5-DAY BOD	1.4	-	1.3	2.2	0.4	
TOTAL SOLIDS	206	200	270	292	200	
SUSPENDED SOLIDS	19	26	11	80	2	
CONDUCTIVITY (MHOS/ CM ³)	-	-	-	-	-	
TURBIDITY (UNITS)	9.5	7.0	7.5	34	8.5	
PHOSPHORUS	{ TOTAL	0.22	0.20	0.70	0.20	
	{ SOLUBLE	-	0.10	0.12	0.16	0.20
NITROGENS	{ FREE AMMONIA	0.06	0.16	0.23	0.06	0.08
	{ TOTAL KJELDAHL	0.52	0.71	0.33	0.33	0.40
	{ NITRITE	0.01	0.01	0.10	0.02	0.02
	{ NITRATE	TR	0.2	0.0	0.00	0.12
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	27	28	29	45	29	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

ST. LAWRENCE RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: SL- 65,85

LOCATION: BELOW CARDINAL

DATE COLLECTED	6.17.65	7.8.65	7.28.65	8.18.65	9.15.65
TEMPERATURE °C	16	19	20.5	21.0	18.0
DISSOLVED OXYGEN	9.2	9.0	9.0	8	9.0
COLIFORMS (MF/100ML)	1,900	40,000	10,200	350,000	39,000
5-DAY BOD	0.9	0.6	1.2	2.3	2.0
TOTAL SOLIDS	198	210	254	200	232
SUSPENDED SOLIDS	6	8	4	6	26
CONDUCTIVITY (MHOS/ CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	2.0	2.3	2.6	3.3	8.0
PHOSPHORUS {					
TOTAL	-	0.22	0.20	0.20	0.28
SOLUBLE	-	0.08	0.08	0.12	0.08
NITROGENS {					
FREE AMMONIA	0.05	0.10	0.02	0.00	TR
TOTAL KJELDAHL	0.71	0.71	0.46	0.33	0.46
NITRITE	TR	0.01	0.01	TR	0.02
NITRATE	0.0	0.2	0.0	-	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	28	30	30	60	27
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ST. LAWRENCE RIVER

WATER QUALITY MONITORING

STATION: SL-22.32

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT ST. LAWRENCE PARK
CITY OF CORNWALL

DATE COLLECTED	9.30.64	12.1.64	9.15.65
TEMPERATURE °C	15	6	18.0
DISSOLVED OXYGEN	8.6	12.3	9.0
COLIFORMS (MF/100ML)	14,800	440	210
5-DAY BOD	1.7	1.8	1.1
TOTAL SOLIDS	242	-	266
SUSPENDED SOLIDS	-	3	2
CONDUCTIVITY ($\mu\text{MHOS}/\text{CM}^3$)	-	-	-
TURBIDITY (UNITS)	2.8	1.5	3.3
PHOSPHORUS (TOTAL)	0.16	-	0.16
(SOLUBLE)	0.14	-	0.16
(FREE AMMONIA	0.08	-	TR
NITROGENS (TOTAL KJELDAHL)	0.33	-	0.40
(NITRITE)	0.0	-	TR
(NITRATE)	0.0	-	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-
CHLORIDES	-	-	29
IRON	-	-	-
HARDNESS	-	-	-
ALKALINITY	-	-	-
PH	-	-	-
DAILY FLOW (CFS)	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SPENCER CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: DS-2,3

LOCATION: HWY 102 - DUNDAS

DATE COLLECTED	10.28.64	11.26.64	2.3.65	3.3.65	5.13.65	7.5.65	7.9.65
TEMPERATURE °C	12	5	0.5	1	18.5	-	21
DISSOLVED OXYGEN	9.9	12.0	13.0	13.2	11.8	-	6.6
COLIFORMS (MF/100ML)	150	18,000	3,400	172	8,300	59,000	720,000
5-DAY BOD	0.8	4.8	3.2	3.8	2.4	1.4	2.4
TOTAL SOLIDS	426	414	402	508	336	534	472
SUSPENDED SOLIDS	-	57	4	30	13	128	62
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	4.0	31	3.6	-	5.0	43.0	23.0
PHOSPHORUS { TOTAL	.12	.24	0.18	0.22	0.16	0.46	0.48
{ SOLUBLE	0.06	0.16	0.08	0.14	0.04	-	0.28
NITROGENS { FREE AMMONIA	.2	.1	.2	.3	0.10	0.20	3.10
{ TOTAL KJELDAHL	.7	1.5	0.5	3.3	0.84	1.0	8.10
{ NITRITE	TR	TR	TR	0.01	0.01	0.02	0.02
{ NITRATE	TR	0.4	.5	.4	-	-	0.25
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	-	-
IRON	-	-	-	-	-	35	35
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	11.2	28.5	12	22	31.1	3.3	6.0
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SPENCER CREEK

WATER QUALITY MONITORING

STATION: DS-2.3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 102
DUNDAS

DATE COLLECTED	7.19.65	7.28.65	8.3.65	8.16.65	8.31.65	9.14.65	9.28.65
TEMPERATURE °C	-	18	-	-	13	16	14
DISSOLVED OXYGEN	-	9.2	-	-	7	8	12
COLIFORMS (MF/100ML)	18,000	16,000	120,000	40,000	13,000	13,000	11,000
5-DAY BOD	-	2.2	2.2	2.4	2.0	2.4	1.0
TOTAL SOLIDS	-	476	584	424	402	578	412
SUSPENDED SOLIDS	-	31	197	71	28	4	10
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	26.0	105	95	36	23	6.5
PHOSPHORUS (TOTAL)	-	0.28	0.6	0.52	0.28	0.28	.24
(SOLUBLE)	-	0.02	0.4	0.14	0.12	0.20	.08
(FREE AMMONIA)	-	0.36	TR	0.12	0.06	0.05	TR
NITROGENS (TOTAL KJELDAHL)	-	0.71	0.84	0.58	0.33	0.40	.3
(NITRITE)	-	TR	0.01	0.04	TR	TR	TR
(NITRATE)	-	TR	0.30	0.15	TR	0.26	.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	63	36	28	46	20	29
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	2.3	-	5.6	4.6	6.0	-
YEARLY FLOW (CFS)	AVERAGE	65.3	MAXIMUM	862	MINIMUM	1.5	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

STONE Y C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: ST-1.0

LOCATION: AT SELKIRK ROAD

DATE COLLECTED	11.30.64	1.26.65	5.19.65	7.7.65	7.27.65	8.26.65	
TEMPERATURE °C	0.5	0.25	22	20	19	21	
DISSOLVED OXYGEN	15.0	8.9	7.8	6.8	1.8	2.8	
COLIFORMS (MF/100ML)	160	20,000	80	23,000	220	280	
5-DAY BOD	3.6	2.2	1.0	1.4	1.2	0.5	
TOTAL SOLIDS	516	580	384	-	414	552	
SUSPENDED SOLIDS	7	24	12	-	10	1	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	
TURBIDITY (UNITS)	5	11.5	2.8	12.0	3.8	-	
PHOSPHORUS	(TOTAL	.32	0.6	0.28	-	0.68	0.20
	(SOLUBLE	.06	0.2	-	-	0.53	0.12
NITROGENS	(FREE AMMONIA	0.03	0.3	0.26	0.06	.33	0.05
	(TOTAL KJELDAHL	1.0	1.1	0.78	0.84	1.0	0.60
	(NITRITE	TR	0.03	0.0	TR	TR	TR
	(NITRATE	0.0	1.5	0.0	-	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	
CHLORIDES	95	-	42	85	73	94	
IRON	0.25	-	-	-	-	-	
HARDNESS	308	-	-	-	-	-	
ALKALINITY	194	-	-	-	-	-	
PH	8.2	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

STONE Y C R E E K

WATER QUALITY MONITORING

STATION: S-0.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT QEW.

DATE COLLECTED	10.28.64	11.26.64	2.3.65	3.3.65	5.13.65	7.9.65	7.28.65	8.24.65
TEMPERATURE °C	11	7.5	0.5	1.0	22.5	21.5	22.3	22
DISSOLVED OXYGEN	4.8	8.0	4.5	6.6	15.0	8.2	16.2	12
COLIFORMS (MF/100ML)	290,000	270,000	13,000	700	250	10,200	1,100	64,000
5-DAY BOD	28	12.0	8.0	5.4	5.0	10	18	B
TOTAL SOLIDS	630	590	876	548	682	510	674	R
SUSPENDED SOLIDS	-	43	24	29	38	38	131	O
CONDUCTIVITY (µMHOS/CM ³)	-	-	-	-	-	-	-	K
TURBIDITY (UNITS)	39	32	9	7.0	11	10.5	68.0	E
								N
PHOSPHORUS { TOTAL	26	4.8	-	4.0	10.8	14	4.3	
{ SOLUBLE	25	3.8	-	3.3	10.8	13	4.3	I
								N
	{ FREE AMMONIA	18.4	4.9	7.1	6.1	0.06	3.9	
NITROGENS { TOTAL KJELDAHL	36	5.0	9.3	6.6	9.40	0.46	17	T
{ NITRITE	0.02	0.1	0.06	0.03	0.02	0.1	0.25	R
{ NITRATE	TR	0.6	0.6	0.4	TR	TR	0.0	A
								N
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	S
CHLORIDES	-	-	-	-	100	61	82	I
IRON	-	-	-	-	-	-	-	T
HARDNESS	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)		AVERAGE	-		MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BEAR CREEK

WATER QUALITY MONITORING

STATION: SN-41.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: SIDE ROAD SOUTH
OF PETROLIA

DATE COLLECTED	10.6.64	12.1.64	1.27.65	3.17.65	6.22.65	7.19.65	8.11.65	9.21.65
TEMPERATURE °C	11	0.5	0.25	1.0	22.5	24.5	25.0	18.8
DISSOLVED OXYGEN	7.2	11.5	-	12.4	15.6	15.8	13.2	19
COLIFORMS (MF/100ML)	9,000	5,600	13,000	27,000	480	80,000	130,000	1,900
5-DAY BOD	7.0	3.0	4.3	2.3	4.2	8.8	5.2	29
TOTAL SOLIDS	2,194	1,184	372	402	1,780	2,970	3,436	3,206
SUSPENDED SOLIDS	20	20	202	38	39	92	94	170
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	10.5	4.5	30	12	23.0	53.0	74.0	120
PHOSPHORUS (TOTAL)	-	-	-	-	1.5	3.2	3.0	1.04
PHOSPHORUS (SOLUBLE)	-	-	-	-	1.1	2.0	1.6	0.64
(FREE AMMONIA	-	-	-	-	0.71	2.9	2.0	0.60
NITROGENS (TOTAL KJELDAHL	-	-	-	-	2.4	9.9	4.0	8.30
(NITRITE	-	-	-	-	0.01	0.01	0.8	0.15
(NITRATE	-	-	-	-	0.0	TR	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	589	1,205	1,381	1,170
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SYDENHAM RIVER

WATER QUALITY MONITORING

STATION: S-2,8R

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 40
RIGHT SIDE

DATE COLLECTED	10.6.64	12.4.64	3.17.65	6.22.65	7.20.65	8.11.65	9.21.65	
TEMPERATURE °C	14	-	1.0	24.2	21.5	23.0	19.0	
DISSOLVED OXYGEN	5.6	-	12.0	12.0	7.0	8.2	1.4	
COLIFORMS (MF/100ML)	3,000	2,700	40,000	490	130,000	90,000	160,000	
5-DAY BOD	4.0	1.8	2.5	1.6	1.5	3.4	9.8	
TOTAL SOLIDS	382	232	360	246	266	274	268	
SUSPENDED SOLIDS	17	8	86	8	10	16	22	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	18	6.0	-	3.3	11.0	8.5	12.5	
PHOSPHORUS	(TOTAL	.72	0.42	0.46	0.34	0.26	.60	0.64
	(SOLUBLE	.62	0.32	0.20	0.32	0.14	.25	0.16
NITROGENS	(FREE AMMONIA	.58	0.4	0.2	0.10	0.19	0.16	0.06
	(TOTAL KJELDAHL	1.50	0.7	1.1	1.00	0.98	0.71	1.70
	(NITRITE	0.01	TR	0.02	0.01	TR	0.01	TR
	(NITRATE	TR	0.0	1.4	0.2	0.0	0.10	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	42	-	21	24	19	22	
IRON	-	0.3	-	-	-	-	-	
HARDNESS	-	170	-	-	-	-	-	
ALKALINITY	-	98	-	-	-	-	-	
PH	-	7.9	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SYDENHAM RIVER

WATER QUALITY MONITORING

STATION: S-2.8L

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT HWY 40
(LEFT SIDE)

DATE COLLECTED	10.6.64	12.4.64	3.17.65	6.22.65	7.20.65	8.11.65	9.21.65	
TEMPERATURE °C	14	-	1.0	24.0	21.5	23.2	18.5	
DISSOLVED OXYGEN	6.2	-	12.0	12.2	7.4	8.2	3.2	
COLIFORMS (MF/100ML)	4,800	10,800	3,700	660	3,800	220,000	310,000	
5-DAY BOD	3.8	1.2	2.8	2.2	1.2	3.0	12	
TOTAL SOLIDS	340	216	340	246	264	248	272	
SUSPENDED SOLIDS	17	5	107	15	30	9	20	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	20	6.5	-	5	9.0	12	13.0	
PHOSPHORUS	(TOTAL	.52	0.42	0.70	0.4	0.38	0.6	0.76
	(SOLUBLE	.44	0.35	0.28	0.26	-	0.4	0.24
NITROGENS	(FREE AMMONIA	.51	0.5	0.3	0.1	0.19	0.20	0.05
	(TOTAL KJELDAHL	1.15	0.7	1.6	0.8	0.84	0.98	1.70
	(NITRITE	0.01	TR	0.02	TR	TR	-	0.0
	(NITRATE	TR	0.0	1.5	0.2	0.0	0.10	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	56	-	21	21	20	22	
IRON	-	0.28	-	-	-	-	-	
HARDNESS	-	210	-	-	-	-	-	
ALKALINITY	-	112	-	-	-	-	-	
PH	-	8.0	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

SYDENHAM RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: SG-0.8

LOCATION: AT 10TH ST. W.
(OWEN SOUND)

DATE COLLECTED	10.8.64	12.17.64	6.29.65	7.21.65	8.5.65	9.21.65
TEMPERATURE °C	11	0.25	21.0	19.0	20.5	19.0
DISSOLVED OXYGEN	10.0	13.8	10.0	9.6	5.2	9.6
COLIFORMS (MF/100ML)	450	560	58,000	6,300	1,360	50,000
5-DAY BOD	1.1	2.4	1.8	0.9	0.4	1.0
TOTAL SOLIDS	314	312	356	282	280	226
SUSPENDED SOLIDS	-	24	35	12	23	10
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	6.5	9.5	6.5	5.5	2.9	9.0
PHOSPHORUS (TOTAL)	-	.12	0.16	0.14	0.20	0.28
(SOLUBLE)	-	0.04	-	0.12	0.08	0.12
(FREE AMMONIA)	-	0.2	0.03	0.3	0.10	0.08
NITROGENS (TOTAL KJELDAHL)	-	1.8	0.65	0.58	0.26	0.33
(NITRITE)	-	TR	TR	TR	TR	TR
(NITRATE)	-	0.6	0.3	0.4	0.20	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	9	11	10	11
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	10.8	75.9	20.7	16.7	15.2	14.7
YEARLY FLOW (CFS)	AVERAGE	90.2	MAXIMUM	1,320	MINIMUM	7.5

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TALBOT CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-0.7

LOCATION: AT EAST TALBOT RD.

DATE COLLECTED	10.5.64	6.24.65	7.6.65	7.21.65	8.27.65
TEMPERATURE °C	13	23	23	27	23
DISSOLVED OXYGEN	9.6	9.8	8	8.4	7
COLIFORMS (MF/100ML)	72	310	300	400	150
5-DAY BOD	0.7	3.2	1.2	2.6	1.6
TOTAL SOLIDS	362	356	378	390	264
SUSPENDED SOLIDS	8	98	93	73	11
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	13	45.0	74.0	53.0	-
PHOSPHORUS { TOTAL	.14	0.40	-	0.42	0.08
{ SOLUBLE	.14	0.10	-	0.42	0.06
NITROGENS { FREE AMMONIA	.03	0.16	0.08	0.13	TR
{ TOTAL KJELDAHL	.39	1.20	1.0	1.10	0.33
{ NITRITE	0.0	TR	TR	TR	TR
{ NITRATE	0.0	-	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	21	21	25	22
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TALFORD CREEK

WATER QUALITY MONITORING

STATION: T-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Hwy 40

DATE COLLECTED	12.1.64	1.27.65	3.17.65	6.22.65	7.20.65	8.11.65	9.21.65
TEMPERATURE °C	26	-	5	36	32	28	28
DISSOLVED OXYGEN	2.2	-	10.2	5.4	3.8	2.2	4.8
COLIFORMS (MF/100ML)	2,900	26,000	1,970	430	660	2,300	2,700
5-DAY BOD	17	18	19	7.6	8.8	10	8.0
TOTAL SOLIDS	240	718	286	304	302	710	222
SUSPENDED SOLIDS	9	15	25	24	5	16	19
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	5.0	6.0	8.0	2.3	11.5	27	7.0
PHOSPHORUS (TOTAL)	0.24	0.92	0.6	0.12	0.60	.3	0.16
(SOLUBLE)	.18	0.60	0.16	0.02	0.52	.15	0.08
(FREE AMMONIA)	2.0	1.6	0.22	0.83	1.9	0.81	1.48
(TOTAL KJELDAHL)	26.0	2.0	0.10	1.40	2.6	2.2	2.10
NITROGENS (NITRITE)	0.01	0.01	TR	TR	0.08	TR	0.04
(NITRATE)	0.0	0.4	0.3	0.0	0.0	0.00	0.0
PHENOL EQUIVALENTS (PPB)	40	35	60	-	-	-	-
CHLORIDES	49	-	-	69	78	394	43
IRON	0.28	-	-	-	-	-	-
HARDNESS	190	-	-	-	-	-	-
ALKALINITY	80	-	-	-	-	-	-
PH	7.2	-	-	-	-	-	-
COD	-	-	30	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TELFER CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-0.1

LOCATION: AT BRIDGE
(LEITH)

DATE COLLECTED	12.16.64	2.24.65	3.25.65	6.30.65	7.21.65	8.5.65	9.21.65
TEMPERATURE °C	0.5	0.1	0.1	15	18	21.8	19.5
DISSOLVED OXYGEN	13.2	14	13.8	12.0	11.8	6.2	9.0
COLIFORMS (MF/100ML)	410	128	700	2,000	10	18	340
5-DAY BOD	2.5	1.8	2.7	1.2	0.8	0.8	1.1
TOTAL SOLIDS	350	278	288	312	150	190	178
SUSPENDED SOLIDS	20	8	5	11	4	9	8
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	13.0	-	2.5	4.0	5.5	3.5	5.5
PHOSPHORUS (TOTAL)	.12	0.06	0.14	0.16	0.18	0.50	0.12
(SOLUBLE)	.05	0.06	0.10	-	0.16	0.36	0.04
(FREE AMMONIA	0.0	TR	0.0	0.02	0.0	0.08	0.05
NITROGENS (TOTAL KJELDAHL	0.3	0.1	0.10	0.65	0.52	0.20	0.33
(NITRITE	TR	TR	0.0	TR	0.0	TR	TR
(NITRATE	0.8	0.8	0.70	0.15	0.2	0.44	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	5	8	4	7
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-0.1 L

LOCATION: LAKE ST. CLAIR (L. SIDE-FACING UPSTREAM)

DATE COLLECTED	10.7.64	6.23.65	7.20.65	8.11.65	9.22.65
TEMPERATURE °C	13.5	23.2	24.0	23.5	22.0
DISSOLVED OXYGEN	8.0	12.2	10.4	13.0	8.8
COLIFORMS (MF/100ML)	190	6	900	80	1,100
5-DAY BOD	3.2	3.0	3.3	5.4	2.4
TOTAL SOLIDS	448	396	422	448	420
SUSPENDED SOLIDS	20	30	39	44	20
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	32	10.0	26	16	23
PHOSPHORUS (TOTAL)	.56	0.54	1.12	1.12	4.6
PHOSPHORUS (SOLUBLE)	.30	0.32	.5	.5	4.0
(FREE AMMONIA)	.51	0.45	0.26	0.30	0.43
NITROGENS (TOTAL KJELDAHL)	1.80	1.60	1.20	1.8	1.70
(NITRITE)	0.04	0.05	0	TR	TR
(NITRATE)	0.50	0.4	0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	31	44	61	52
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-0.1 (CT)

LOCATION: LAKE ST. CLAIR
(CENTRE) TOP

DATE COLLECTED	10.7.64	16.23.65	7.20.65	8.11.65	9.22.65
TEMPERATURE °C	13.5	23.5	24.2	22.5	22.2
DISSOLVED OXYGEN	8.2	12.2	10.2	12	10.8
COLIFORMS (MF/100ML)	300	8	1,900	600	300
5-DAY BOD	5.4	3.9	3.5	3.8	3.2
TOTAL SOLIDS	460	394	406	478	460
SUSPENDED SOLIDS	29	32	39	24	29
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-
TURBIDITY (UNITS)	31	8.0	26.0	18	36
PHOSPHORUS (TOTAL)	.60	0.54	-	1.0	4.9
(SOLUBLE)	0.3	-	0.40	.43	4.1
(FREE AMMONIA)	.58	0.38	0.19	0.30	0.53
NITROGENS (TOTAL KJELDAHL)	1.5	1.80	1.50	1.2	2.00
(NITRITE)	0.05	0.05	0.0	TR	TR
(NITRATE)	0.30	0.4	0.0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-
CHLORIDES	-	33	44	62	52
IRON	-	-	-	-	-
HARDNESS	-	-	-	-	-
ALKALINITY	-	-	-	-	-
PH	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-0.1 CB

LOCATION: AT LAKE ST. CLAIR
(BOTTOM)

DATE COLLECTED	10.7.64	7.20.65	8.11.65	9.22.65
TEMPERATURE °C	13.5	23.8	21.5	21.2
DISSOLVED OXYGEN	7.4	9.6	9.0	8.5
COLIFORMS (MF/100ML)	-	11,100	110	1,200
5-DAY BOD	4.0	3.6	3.4	3.4
TOTAL SOLIDS	468	414	420	426
SUSPENDED SOLIDS	45	39	23	132
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-
TURBIDITY (UNITS)	31	10.5	13	39
PHOSPHORUS (TOTAL)	.64	-	.72	3.10
(SOLUBLE)	.42	0.40	.40	2.84
(FREE AMMONIA)	.64	0.22	0.20	0.20
NITROGENS (TOTAL KJELDAHL)	1.80	1.40	1.1	2.00
(NITRITE)	.04	TR	TR	TR
(NITRATE)	.30	0.0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-
CHLORIDES	-	45	50	47
IRON	-	-	-	-
HARDNESS	-	-	-	-
ALKALINITY	-	-	-	-
PH	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -	MAXIMUM -	MINIMUM -	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

T H A M E S R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-0,1R

LOCATION: L. ST. CLAIR (RIGHT SIDE
FACING UPSTREAM)

DATE COLLECTED	10.7.64	12.2.64	3.18.65	6.23.65	7.20.65	8.11.65	9.22.65
TEMPERATURE °C	13.5	1.5	2.0	23.0	24.2	23.0	21.9
DISSOLVED OXYGEN	8.0	9.6	12.0	11.9	10.2	12.0	10.2
COLIFORMS (MF/100ML)	120	600	2,800	12	400	70	8,200
5-DAY BOD	9.4	5.5	1.4	4.2	3.4	3.8	3.4
TOTAL SOLIDS	444	486	478	420	394	464	404
SUSPENDED SOLIDS	30	14	201	28	39	19	25
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	30	7.0	68	9.0	27.0	10	-
PHOSPHORUS (TOTAL)	.6	1.0	0.76	0.54	-	.48	5.6
(SOLUBLE)	.38	.80	0.24	-	0.48	.48	5.0
(FREE AMMONIA)	.58	0.4	0.38	0.42	0.29	0.23	0.36
NITROGENS (TOTAL KJELDAHL)	1.75	2.5	1.65	1.60	1.10	1.4	1.70
(NITRITE)	0.04	0.02	0.02	0.05	0.0	TR	TR
(NITRATE)	0.30	TR	1.6	0.4	0.0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	81	-	33	42	61	53
IRON	-	0.20	-	-	-	-	-
HARDNESS	-	400	-	-	-	-	-
ALKALINITY	-	246	-	-	-	-	-
PH	-	8.1	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

BAPTISTE CREEK

WATER QUALITY MONITORING

STATION: TB-2.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: TECUMSEH ROAD

DATE COLLECTED	10.7.64	12.2.64	3.18.65	6.23.65	7.20.65	8.11.65	9.22.65
TEMPERATURE °C	8.5	1.5	1.0	24.5	25.5	23.5	23.8
DISSOLVED OXYGEN	9.0	15.6	12.6	13.4	11.2	12.0	4.1
COLIFORMS (MF/100ML)	28	89,000	2,700	0	2,600	90	90,000
5-DAY BOD	18	8.5	2.4	16	5.1	8.8	8.0
TOTAL SOLIDS	494	508	568	564	646	502	524
SUSPENDED SOLIDS	46	20	222	96	67	60	68
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	41	7.5	120	32.0	53.0	29	31
PHOSPHORUS	(TOTAL	-	-	1.24	1.02	1.0	1.36
	(SOLUBLE	-	-	0.20	0.40	.24	0.52
NITROGENS	(FREE AMMONIA	-	-	0.38	0.35	0.53	0.66
	(TOTAL KJELDAHL	-	-	4.50	1.80	3.6	3.50
	(NITRITE	-	-	0.04	0.0	0.00	0.01
	(NITRATE	-	-	TR	TR	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	57	81	54	66
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TILBURY CREEK

WATER QUALITY MONITORING

STATION: T88-3.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT TECUMSEH ROAD

DATE COLLECTED	10.7.64	12.2.64	3.18.65	6.23.65	7.20.65	8.11.65	9.22.65
TEMPERATURE °C	9.5	1.0	1.0	24.0	26.0	23.0	23.4
DISSOLVED OXYGEN	10	14.8	12.2	9.4	9.8	14	5.0
COLIFORMS (MF/100ML)	70	4,000	7,100	12,700	6,000	230	1,300
5-DAY BOD	19.2	8.3	2.3	10	4.2	7.2	6.8
TOTAL SOLIDS	436	486	428	546	562	528	538
SUSPENDED SOLIDS	47	23	126	108	88	85	44
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	48	12.5	53	62.0	53.0	58	95
PHOSPHORUS (TOTAL)	-	-	-	1.14	0.78	.88	0.84
(SOLUBLE)	-	-	-	0.54	0.52	.1	0.40
(FREE AMMONIA)	-	-	-	0.70	0.32	0.39	0.13
NITROGENS (TOTAL KJELDAHL)	-	-	-	3.40	2.80	3.4	2.20
(NITRITE)	-	-	-	0.05	0.0	0.02	TR
(NITRATE)	-	-	-	0.2	0.0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	52	51	41	53
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-16.0L

LOCATION: KEIL DR. CITY OF CHATHAM (LEFT)

DATE COLLECTED	10.8.84	12.2.84	1.28.85	3.18.85	6.23.85	7.20.85	8.11.85	9.21.85
TEMPERATURE °C	13.5	1.0	0.25	1.0	23	23	24	18.4
DISSOLVED OXYGEN	7.6	13.6	10.8	12.0	4.0	1.4	4.4	5.0
COLIFORMS (MF/100ML)	80,000,000	59,000	1,290	6,000	107,000	490,000	190,000	39,000
5-DAY BOD	13	6.0	3.9	2.6	3.8	3.2	5.0	4.8
TOTAL SOLIDS	488	518	348	368	470	502	418	476
SUSPENDED SOLIDS	55	14	24	69	28	12	34	15
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	50	5.0	23	27	11.5	9.5	9.0	16
PHOSPHORUS (TOTAL)	-	-	0.80	-	1.2	2.8	0.94	1.36
PHOSPHORUS (SOLUBLE)	-	-	0.48	-	1.1	2.8	.54	0.88
(FREE AMMONIA)	-	-	0.8	-	0.51	0.51	.33	0.85
NITROGENS (TOTAL KJELDAHL)	-	-	1.0	-	2.20	2.13	1.5	2.50
(NITRITE)	-	-	.01	-	0.03	TR	TR	0.04
(NITRATE)	-	-	2.0	-	TR	0.0	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	44	65	56	54
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

STATION: T-16, OCT

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: KEIL RD.
(CENTRE TOP)

DATE COLLECTED	10.8.64	12.2.64	1.28.65	3.17.65	6.24.65	7.20.65	8.11.65	9.21.65
TEMPERATURE °C	13.5	-	0.25	1.0	23	23	24.2	18.2
DISSOLVED OXYGEN	8.0	-	10.7	12.0	4.8	1.4	5.0	6.0
COLIFORMS (MF/100ML)	60,000,000	17,200	6,000	5,700	211,000	79,000	-	33,000
5-DAY BOD	15	52	4.2	2.9	2.4	3.2	4.3	3.4
TOTAL SOLIDS	480	532	366	382	438	476	990	466
SUSPENDED SOLIDS	54	15	33	67	30	15	-	15
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	38	7.5	21	24	6.5	9.0	12.5	12
PHOSPHORUS (TOTAL)	-	-	0.76	-	1.28	2.0	-	1.28
(SOLUBLE)	-	-	0.5	-	-	1.64	-	0.82
(FREE AMMONIA)	-	-	0.6	-	0.90	0.80	0.33	0.72
NITROGENS (TOTAL KJELDAHL)	-	-	1.4	-	2.10	1.80	1.5	2.20
(NITRITE)	-	-	0.01	-	0.03	0.0	0.01	0.03
(NITRATE)	-	-	2.0	-	0.00	0.00	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	44	67	55	54
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-16.0 CB

LOCATION: KEIL DRIVE
(CENTRE BOTTOM)

DATE COLLECTED	10.8.64	12.2.64	1.28.65	3.17.65	7.20.65	9.21.65
TEMPERATURE °C	-	13.5	0.25	1.0	22.5	17.8
DISSOLVED OXYGEN	-	8.0	10.2	12.2	1.2	5.5
COLIFORMS (MF/100ML)	-	-	41,000	720	184,000	38,000
5-DAY BOD	7	7.6	4.4	2.9	3.2	3.6
TOTAL SOLIDS	492	534	382	386	468	444
SUSPENDED SOLIDS	60	18	31	68	15	17
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	40	9.0	21	32	7.5	10.0
PHOSPHORUS (TOTAL)	-	-	0.84	-	3.0	1.28
PHOSPHORUS (SOLUBLE)	-	-	0.5	-	2.7	0.96
(FREE AMMONIA)	-	-	0.5	-	0.90	0.60
NITROGENS (TOTAL KJELDAHL)	-	-	1.2	-	1.80	2.00
(NITRITE)	-	-	0.01	-	0.0	0.03
(NITRATE)	-	-	2.0	-	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	-	-	67	53
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

STATION: T-16.0R

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT KEIL DR.
(RIGHT)

DATE COLLECTED	10.8.64	12.2.64	1.28.65	3.17.65	6.23.65	7.20.65	8.11.65	9.21.65
TEMPERATURE °C	13.5	1.0	0.25	1.0	23	23	24	18.8
DISSOLVED OXYGEN	7.8	13.6	10.0	12.4	4.8	1.4	5.2	3.5
COLIFORMS (MF/100ML)	100,000,000	340,000	76,000	1,280	110,000	560,000	39,000	230,000
5-DAY BOD	11	4.4	-	2.9	2.5	3.4	4.8	4.0
TOTAL SOLIDS	504	530	-	372	450	494	434	436
SUSPENDED SOLIDS	54	13	-	64	18	11	11	17
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	34	6.5	-	30	12.5	9.5	9.5	10.5
PHOSPHORUS (TOTAL)	-	-	-	-	1.64	3.2	1.0	1.28
(SOLUBLE)	-	-	-	-	-	2.8	.44	0.88
(FREE AMMONIA)	-	-	-	-	1.41	0.51	0.26	0.72
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	2.50	2.3	1.3	1.70
(NITRITE)	-	-	-	-	0.01	TR	TR	0.04
(NITRATE)	-	-	-	-	-	0.0	0.0	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	45	65	56	53
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

NEWBIGGIN CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: TN-73.0

LOCATION: AT HWY 2 AND
HWY 80

DATE COLLECTED 8.11.65

TEMPERATURE °C 5.0
DISSOLVED OXYGEN 24.3

COLIFORMS (MF/100ML) 1,100

5-DAY BOD 5.8
TOTAL SOLIDS 412
SUSPENDED SOLIDS 161
CONDUCTIVITY (μMHOS/CM³) -
TURBIDITY (UNITS) 53

PHOSPHORUS (TOTAL 1.80
(SOLUBLE .62

(FREE AMMONIA 0.05
NITROGENS (TOTAL KJELDAHL 1.7
(NITRITE 0.02
(NITRATE TR

PHENOL EQUIVALENTS (PPB) -
CHLORIDES 51
IRON -
HARDNESS -
ALKALINITY -
PH -

DAILY FLOW (CFS) -

YEARLY FLOW (CFS) AVERAGE - MAXIMUM - MINIMUM -

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

D I N G M A N C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: TD-122.5

C H E M I C A L , P H Y S I C A L , A N D B A C T E R I O L O G I C A L R E S U L T S

LOCATION: AT HWY 2, WEST
OF LAMBETH

DATE COLLECTED	10.8.64	12.4.64	1.26.65	5.20.65	7.6.65	7.19.65	8.5.65	8.11.65	9.21.65
TEMPERATURE °C	9.0	-	0.5	17.0	15	18	21.8	-	16.5
DISSOLVED OXYGEN	1.0	-	10.6	8.2	7.6	9.2	8.4	-	4.4
COLIFORMS (MF/100ML)	20,000	298	35,000	700	220	1,100	21,000	39,000	3,300
5-DAY BOD	11	1.7	4.4	2.8	2.8	2.8	-	4.8	3.8
TOTAL SOLIDS	588	622	398	504	590	514	562	434	564
SUSPENDED SOLIDS	18	9	25	-	10	25	30	11	98
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	16	4.0	6.5	4.5	11.0	11.0	17	9.5	34
PHOSPHORUS (TOTAL)	-	-	-	0.96	0.64	.62	1.0	1.0	1.12
(SOLUBLE)	-	-	-	0.46	-	.28	0.96	0.44	0.68
NITROGENS (FREE AMMONIA)	-	-	-	-	0.11	.19	0.66	0.26	.20
(TOTAL KJELDAHL)	-	-	-	1.00	1.0	1.3	1.5	1.30	2.00
(NITRITE)	-	-	-	-	0.02	.01	0.03	TR	.10
(NITRATE)	-	-	-	-	4.0	3.6	TR	0.0	2.5
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	58	83	77	61	56	75
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div style="display: flex; justify-content: space-between; padding: 0;"> AVERAGE - MAXIMUM - MINIMUM - </div>								

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

STATION: T-124.5 LT

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: FOOTBRIDGE AT GOLF COURSE

DATE COLLECTED	10.6.64	12.1.64	1.27.65	5.20.65	7.6.65	7.19.65	8.5.65	9.20.65
TEMPERATURE °C	11.5	0.0	0.25	21.0	22.5	23.5	24.0	18.5
DISSOLVED OXYGEN	6.4	12.3	11.7	9.0	11.2	13.2	12.8	13.5
COLIFORMS (MF/100ML)	7,400	1,600,000	29,000	700	9,000	2,300	250,000	5,000
5-DAY BOD	7.5	9.1	5.0	7.2	6.4	7.0	7.2	7.2
TOTAL SOLIDS	534	492	414	368	494	482	448	518
SUSPENDED SOLIDS	8	10	24	-	10	13	15	8
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	5.0	2.6	8.0	3.3	5.0	10.0	5.0	12.0
PHOSPHORUS (TOTAL)	-	-	-	0.64	3.68	2.6	2.8	3.3
PHOSPHORUS (SOLUBLE)	-	-	-	0.44	-	1.8	2.4	3.0
(FREE AMMONIA)	-	-	-	0.40	0.77	0.64	0.82	1.18
NITROGENS (TOTAL KJELDAHL)	-	-	-	1.65	2.6	2.5	2.8	2.40
(NITRITE)	-	-	-	0.05	0.02	0.25	0.10	0.10
(NITRATE)	-	-	-	0.6	1.40	0.36	0.96	1.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	33	58	60	61	61
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	202	298	1,360	435	198	205	175	124
YEARLY FLOW (CFS)	AVERAGE	1,320	MAXIMUM	26,900	MINIMUM	56.0		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

STATION: T-124.5 CT

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: FOOTBRIDGE AT GOLF COURSE
(CENTRE TOP)

DATE COLLECTED	10.6.64	12.1.64	1.27.65	5.20.65	7.6.65	7.19.65	8.5.65	9.20.65
TEMPERATURE °C	11.5	0.0	0.25	21.0	21.9	23.5	24.0	18.1
DISSOLVED OXYGEN	6.4	12.3	11.4	8.9	11.6	9.8	12.2	9.0
COLIFORMS (MF/100ML)	8,300	2,700,000	27,000	-	9,000	1,600	14,000	4,100
5-DAY BOD	8.4	9.3	5.2	3.3	6.0	7.4	5.8	11
TOTAL SOLIDS	534	480	396	372	492	472	528	566
SUSPENDED SOLIDS	4	7	24	-	7	15	-	70
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	6	2.8	6.0	3.6	5.0	9.5	7.5	27.0
PHOSPHORUS (TOTAL	-	-	-	0.66	-	2.2	2.8	2.40
(SOLUBLE	-	-	-	0.42	-	1.8	2.7	2.20
(FREE AMMONIA	-	-	-	0.40	0.83	0.77	0.99	1.05
NITROGENS (TOTAL KJELDAHL	-	-	-	1.65	2.6	2.4	3.1	3.80
(NITRITE	-	-	-	0.05	TR	0.20	0.10	0.40
(NITRATE	-	-	-	0.8	1.30	0.40	1.0	1.25
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	30	58	58	60	65
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	202	298	1,360	435	198	205	175	124
YEARLY FLOW (CFS)	AVERAGE	1,320	MAXIMUM	26,900	MINIMUM	56.0		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-124.5 CB

LOCATION: FOOTBRIDGE AT GOLF
COURSE (CENTRE BOTTOM)

DATE COLLECTED	10.6.64	7.8.65	7.19.65	8.5.65	9.20.65	
TEMPERATURE °C	11.5	22.7	22.5	23.0	17.9	
DISSOLVED OXYGEN	6.4	10.8	9.6	12.4	6.8	
COLIFORMS (MF/100ML)	-	750	3,800	40,000	27,000	
5-DAY BOD	15	6.2	5.8	5.6	7.2	
TOTAL SOLIDS	514	472	520	512	582	
SUSPENDED SOLIDS	17	9	19	8	94	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	
TURBIDITY (UNITS)	8.5	5	9.5	8.0	27.0	
PHOSPHORUS (TOTAL)	-	-	2.0	3.2	3.28	
(SOLUBLE)	-	-	1.8	2.4	3.52	
(FREE AMMONIA	-	0.83	1.0	1.1	1.31	
NITROGENS (TOTAL KJELDAHL	-	2.6	2.6	2.8	2.50	
(NITRITE	-	TR	0.25	0.10	0.30	
(NITRATE	-	1.3	0.30	0.96	1.25	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	-	58	61	61	64	
IRON	-	-	-	-	-	
HARDNESS	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	
PH	-	-	-	-	-	
DAILY FLOW (CFS)	202	188	205	175	124	
YEARLY FLOW (CFS)	AVERAGE	1,320	MAXIMUM	26,900	MINIMUM	56.0

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

STATION: T-124.5 R

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: FOOTBRIDGE AT GOLF COURSE
(RIGHT SIDE)

DATE COLLECTED	10.6.64	12.1.64	1.27.65	5.20.65	7.6.65	7.19.65	8.5.65	9.20.65
TEMPERATURE °C	12.0	0	0.25	21.0	22.8	22.2	23.5	21.0
DISSOLVED OXYGEN	6.4	12.3	11.7	9.0	11.8	12.2	11.4	10.6
COLIFORMS (MF/100ML)	7,900	1,300,000	650	6,300	790	2,800	360	110,000
5-DAY BOD	3.4	9.3	4.8	3.1	6.0	8.8	-	6.6
TOTAL SOLIDS	524	488	402	364	464	486	486	504
SUSPENDED SOLIDS	6	8	23	-	7	18	13	14
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	4.0	1.8	6.5	2.0	4.5	9.5	6.5	24
PHOSPHORUS (TOTAL	-	-	-	0.68	3.72	-	2.48	5.10
(SOLUBLE	-	-	-	0.38	2.36	-	2.28	2.52
(FREE AMMONIA	-	-	-	0.40	1.08	0.83	1.2	1.44
NITROGENS (TOTAL KJELDAHL	-	-	-	1.65	2.8	2.6	3.1	4.40
(NITRITE	-	-	-	0.05	TR	0.20	0.10	0.25
(NITRATE	-	-	-	0.6	1.20	0.30	1.1	0.40
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	31	57	59	60	64
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	202	298	1,360	435	198	205	175	124
YEARLY FLOW (CFS)	AVERAGE	1,320		MAXIMUM	26,900		MINIMUM	56.0

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

STATION: TN-135.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT FANSHAW DAM

DATE COLLECTED	5.18.65	6.23.65	7.19.65	8.5.65	9.7.65	
TEMPERATURE °C	-	21.5	23	22	18.5	
DISSOLVED OXYGEN	-	12.4	10.6	9.8	7	
COLIFORMS (MF/100ML)	-	180	36	270	18	
5-DAY BOD	-	2.9	2.8	1.6	1.9	
TOTAL SOLIDS	346	332	306	-	362	
SUSPENDED SOLIDS	-	12	12	-	9	
CONDUCTIVITY (μMHOS/CM ³)	-	432	-	-	-	
TURBIDITY (UNITS)	-	4.0	7.5	29	-	
PHOSPHORUS (TOTAL	0.16	0.18	.24	0.48	0.16	
(SOLUBLE	-	-	.04	0.45	0.04	
(FREE AMMONIA	0.65	0.13	.06	0.10	TR	
NITROGENS (TOTAL KJELDAHL	0.08	1.20	1.3	0.84	1.10	
(NITRITE	0.01	0.01	0.0	0.02	0.0	
(NITRATE	2.50	0.0	0.0	-	0.0	
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	
CHLORIDES	19	17	21	24	25	
IRON	0.33	-	-	-	-	
HARDNESS	264	-	-	-	-	
ALKALINITY	213	-	-	-	-	
PH	8.3	-	-	-	-	
DAILY FLOW (CFS)	176	0.8	42.8	35.6	64.5	
YEARLY FLOW (CFS)	AVERAGE	527	MAXIMUM	12,800	MINIMUM	0.8

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

STATION: T-158,3

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT CABLE BRIDGE -
ST. MARY'S

DATE COLLECTED	10.7.64	12.15.64	1.27.65	2.23.65	3.23.65	6.23.65	7.19.65	8.5.65	9.7.65
TEMPERATURE °C	10	0.5	0.25	0.2	1.6	22.5	23	21	19
DISSOLVED OXYGEN	14.8	12.7	13.0	13.2	13.4	11.8	11.4	11.5	-
COLIFORMS (MF/100ML)	-	28,000	8,000	12,000	9,200	66,000	46,000	2,570,000	23,000
5-DAY BOD	1.5	2.9	2.0	2.3	4.0	3.0	1.6	1.1	2.3
TOTAL SOLIDS	404	364	398	368	362	488	440	464	534
SUSPENDED SOLIDS	-	4	3	4	5	15	21	17	12
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	2.3	8.0	2.0	1.5	2	5.0	4.5	8.0	11.5
PHOSPHORUS (TOTAL)	-	-	-	-	-	0.84	2.0	2.0	2.4
(SOLUBLE)	-	-	-	-	-	0.72	0.94	1.8	2.16
(FREE AMMONIA)	-	-	-	-	-	0.22	0.26	0.16	0.13
NITROGENS (TOTAL KJELDAHL)	-	-	-	-	-	1.60	1.3	1.2	1.10
(NITRITE)	-	-	-	-	-	0.0	TR	0.01	0.02
(NITRATE)	-	-	-	-	-	0.0	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	-	49	42	58	51
IRON	-	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	39.8	346	115	306	81.3	16.8	14.4	13.2	4.2
YEARLY FLOW (CFS)	AVERAGE 402		MAXIMUM 9,070		MINIMUM 1.8				

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THAMES RIVER

WATER QUALITY MONITORING

STATION: T-160.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT DUNDAS ST.
(WOODSTOCK)

DATE COLLECTED	10.8.64	1.28.65	3.18.65	5.20.65	7.6.65	7.19.65	8.5.65	9.20.65
TEMPERATURE °C	10.5	0.25	1.0	15.0	17.0	19	19	18.5
DISSOLVED OXYGEN	8.0	9.2	11.6	9.8	5.6	5.4	6.2	5.0
COLIFORMS (MF/100ML)	42,000	27,000	5,400	8,400	60,000	42,000	2,100,000	13,000
5-DAY BOD	4	4	3.1	9.2	8.4	4.6	13	5.2
TOTAL SOLIDS	984	396	440	468	566	552	630	-
SUSPENDED SOLIDS	4	11	7	-	19	30	20	-
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	11	3.5	5.0	6.0	7.5	14.0	6.0	12.0
PHOSPHORUS (TOTAL)	-	-	-	1.7	4.2	3.8	4.8	-
PHOSPHORUS (SOLUBLE)	-	-	-	0.76	-	2.0	3.6	-
(FREE AMMONIA)	-	-	-	0.70	3.1	0.80	2.6	0.36
NITROGENS (TOTAL KJELDAHL)	-	-	-	2.5	3.1	2.5	4.0	1.00
(NITRITE)	-	-	-	0.04	0.0	0.16	0.20	1.00
(NITRATE)	-	-	-	-	0.60	2.5	0.52	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	42	59	34	67	32
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	11.2	80	81.0	34.4	11.6	9.4	10.4	5.0
YEARLY FLOW (CFS)	AVERAGE	104		MAXIMUM	2,180		MINIMUM	4.8

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

CEDAR CREEK

WATER QUALITY MONITORING

STATION: TC-160.9

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT INGERSOLL ROAD

DATE COLLECTED	10.8.64	1.28.65	3.18.65	5.21.65	7.6.65	7.19.65	8.5.65	9.20.65	
TEMPERATURE °C	10	0.25	0.5	15.0	15.7	17	18.5	20.1	
DISSOLVED OXYGEN	10.6	9.2	12.0	9.8	6.7	8.4	8.2	7.2	
COLIFORMS (MF/100ML)	47,000	41,000	730	21,000	7,300	62,000	1,310,000	4,200	
5-DAY BOD	2	4.9	3.5	3.8	1.7	1.6	2.1	2.3	
TOTAL SOLIDS	456	364	464	442	-	634	422	470	
SUSPENDED SOLIDS	7	9	7	-	-	67	23	14	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	6.0	3.8	4.0	3.6	7.0	10.5	5.0	9.5	
PHOSPHORUS	(TOTAL	-	-	-	-	-	-	-	
	(SOLUBLE	-	-	-	0.26	-	0.58	0.28	0.40
NITROGENS	(FREE AMMONIA	-	-	-	0.16	0.30	0.32	0.33	0.33
	(TOTAL KJELDAHL	-	-	-	1.3	1.3	1.6	0.98	1.00
	(NITRITE	-	-	-	0.01	TR	0.02	0.03	0.04
	(NITRATE	-	-	-	0.4	-	0.30	0.38	0.5
		-	-	-	-	-	-	-	-
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	40	76	53	45	32	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM		-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

THIRTY MILE CREEK

WATER QUALITY MONITORING

STATION: T-0.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT Q.E.W.

DATE COLLECTED	10.28.64	11.26.64	2.3.65	5.18.65	7.8.65	7.28.65	8.24.65	
TEMPERATURE °C	10	7.5	0.5	14.5	21.5	18.5	22	
DISSOLVED OXYGEN	9.6	12.0	13.0	10	7.4	7.6	13	
COLIFORMS (MF/100ML)	5,000	7,000	103,000	2,900	10,000	176	2,600	
5-DAY BOD	3.8	2.6	3.1	1.3	1.6	0.6	3.6	
TOTAL SOLIDS	956	592	462	308	-	628	754	
SUSPENDED SOLIDS	-	14	36	20	-	19	11	
CONDUCTIVITY (μMHOS/ CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	39	10	9.5	0.5	6.0	11.0	-	
PHOSPHORUS	(TOTAL	.36	.14	.3	0.08	0.18	0.18	0.32
	(SOLUBLE	.08	.04	.16	0.02	0.04	0.10	0.24
NITROGENS	(FREE AMMONIA	0.1	TR	0.2	0.05	TR	0.03	0.06
	(TOTAL KJELDAHL	0.8	20.0	0.9	0.58	0.64	0.77	0.84
	(NITRITE	0.04	0.2	TR	TR	0.02	0.03	0.01
	(NITRATE	1.5	0.1	1.4	-	-	0.56	0.30
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	70	85	86	-	
IRON	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE		-	MAXIMUM		-	MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TRENT RIVER

WATER QUALITY MONITORING

STATION: T-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 2 BRIDGE
(TRENTON)

DATE COLLECTED	11.30.84	6.15.85	7.7.85	7.27.85	8.17.85	9.14.85
TEMPERATURE °C	3	19	22	23.8	23.0	20
DISSOLVED OXYGEN	11.2	7.0	6.2	6.4	6	10
COLIFORMS (MF/100ML)	150	274	-	1,500	440	9,000
5-DAY BOD	9.9	1.8	1.4	3.1	0.8	3.2
TOTAL SOLIDS	234	150	166	304	126	156
SUSPENDED SOLIDS	-	3	9	8	9	6
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	2.8	2.6	2.0	2.8	2.3	4.0
PHOSPHORUS (TOTAL)	0.16	-	0.20	0.16	0.12	0.20
(SOLUBLE)	0.04	-	0.10	0.04	0.04	0.12
(FREE AMMONIA)	0.3	0.13	0.11	0.03	0.02	0.08
NITROGENS (TOTAL KJELDAHL)	0.5	1.2	0.71	0.71	0.58	0.60
(NITRITE)	TR	TR	TR	0.0	TR	TR
(NITRATE)	0.2	0.0	0.15	0.0	0.00	TR
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	6	5	6	10	5
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	1,290	578	1,400	846	1,190	1,570
YEARLY FLOW (CFS)	AVERAGE	3,420	MAXIMUM	15,900	MINIMUM	375

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TRENT RIVER

WATER QUALITY MONITORING

STATION: T - 31.6

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT DAM (CAMPELLFORD)

DATE COLLECTED	12.2.64	6.17.65	7.9.65	7.29.65	8.18.65	9.17.65
TEMPERATURE °C	1.0	19.0	22.0	21.0	22.0	18.0
DISSOLVED OXYGEN	15.2	9.3	9.0	9.2	8.0	10.0
COLIFORMS (MF/100ML)	530	70	43,000	27,200	160,000	30
5-DAY BOD	2.7	1.2	1.7	3.0	2.6	1.8
TOTAL SOLIDS	-	134	158	130	146	140
SUSPENDED SOLIDS	3	4	9	9	22	5
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.1	2.1	1.7	5.5	6.5	8.0
PHOSPHORUS (TOTAL)	-	0.12	0.34	0.60	0.56	0.24
(SOLUBLE)	-	-	0.14	0.20	0.20	0.20
(FREE AMMONIA)	-	0.05	0.14	0.26	0.13	TR
(TOTAL KJELDAHL)	-	0.71	1.1	1.2	0.98	0.71
NITROGENS (NITRITE)	-	TR	TR	TR	TR	TR
(NITRATE)	-	0.0	TR	TR	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	7	5.	10	19	5
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>-</div> <div>MAXIMUM</div> <div>-</div> <div>MINIMUM</div> <div>-</div> </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

C R O W E R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: TX-47.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY 7 BRIDGE
MARMORA

DATE COLLECTED	12.2.64	6.17.65	7.8.65	7.28.65	8.18.65	9.17.65
TEMPERATURE °C	0.5	18	21.5	22.5	23.0	18.0
DISSOLVED OXYGEN	14.3	3.2	9.0	8.4	7.0	9.0
COLIFORMS (MF/100ML)	64	62	400	374	1,800	310
5-DAY BOD	2.6	0.6	1.2	1.3	0.8	0.5
TOTAL SOLIDS	-	120	140	144	140	136
SUSPENDED SOLIDS	2	2	3	2	13	4
CONDUCTIVITY (μ MHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.3	1.7	1.1	2.9	2.6	2.8
PHOSPHORUS (TOTAL)	-	-	0.12	0.12	0.12	0.12
(SOLUBLE)	-	-	0.12	0.08	0.08	0.12
(FREE AMMONIA)	-	0.05	0.11	0.13	0.05	TR
NITROGENS (TOTAL KJELDAHL)	-	0.71	0.60	0.65	0.84	0.26
(NITRITE)	-	0.01	TR	0.0	TR	TR
(NITRATE)	-	0.0	0.15	0.0	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	5	3	4	74	3
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	37.7	306	151	61.2	74.2	55.8
YEARLY FLOW (CFS)	AVERAGE	552	MAXIMUM	4,310	MINIMUM	28.6

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

HOUSE RIVER

WATER QUALITY MONITORING

STATION: T0-68.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: Hwy 45 (Norwood)

DATE COLLECTED	12.2.64	6.17.65	7.9.65	7.29.65	8.18.65	9.17.65
TEMPERATURE °C	1	19	20.5	18	16.0	-
DISSOLVED OXYGEN	11.8	9.0	8.4	8.6	10.0	-
COLIFORMS (MF/100ML)	220	196	120	356	380	270
5-DAY BOD	2.4	1.3	0.4	1.1	0.9	1.3
TOTAL SOLIDS	-	278	234	292	216	242
SUSPENDED SOLIDS	2	7	2	1	2	2
CONDUCTIVITY ($\mu\text{MHOS}/\text{CM}^3$)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.4	2.0	1.7	2.0	2.6	1.5
PHOSPHORUS	{ TOTAL		0.12	0.08	0.12	0.12
	{ SOLUBLE		0.04	0.06	0.07	0.08
NITROGENS	{ FREE AMMONIA		0.11	0.05	0.06	TR
	{ TOTAL KJELDAHL		0.58	0.39	0.46	0.33
	{ NITRITE		TR	TR	TR	TR
	{ NITRATE		0.2	6.3	0.20	0.14
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	8	11	17	-	12
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE		MAXIMUM		MINIMUM	

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

O T O N A B E E R I V E R

W A T E R Q U A L I T Y M O N I T O R I N G

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: T-88.5

LOCATION: Hwy 7 (SOUTH OF
PETERBOROUGH)

DATE COLLECTED	12.2.64	6.17.65	7.9.65	7.29.65	8.18.65	9.17.65
TEMPERATURE °C	1.5	-	22	21.2	17	-
DISSOLVED OXYGEN	13.6	-	7.8	8.8	9	-
COLIFORMS (MF/100ML)	110	134	126	100	450	90
5-DAY BOD	2.3	1.5	0.8	1.6	0.5	1.3
TOTAL SOLIDS	-	220	124	162	126	126
SUSPENDED SOLIDS	2	6	4	6	28	1
CONDUCTIVITY (MICROS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	1.1	2.0	1.7	5.0	2.8	2.6
PHOSPHORUS	(TOTAL					
	-	0.30	0.20	0.24	0.24	0.24
NITROGENS	(SOLUBLE					
	-	-	0.10	0.08	0.20	0.12
NITROGENS	(FREE AMMONIA					
	-	0.26	0.18	0.23	0.13	0.20
	(TOTAL KJELDAHL					
	-	0.84	0.58	0.52	0.71	0.60
NITROGENS	(NITRITE					
	-	0.01	TR	TR	TR	TR
NITROGENS	(NITRATE					
	-	0.0	TR	0.00	0.00	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	7	4	5	-	6
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	1,160	300	1,840	660	1,140	1,480
YEARLY FLOW (CFS)	AVERAGE					
		2,530		9,730		290
	MAXIMUM					
	MINIMUM					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TURKEY CREEK

WATER QUALITY MONITORING

STATION: T-0.2

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: Hwy 18

DATE COLLECTED	10.6.64	12.3.64	1.28.65	3.18.65	6.24.65	7.21.65	8.11.65	9.22.65
TEMPERATURE °C	13	0.5	0.25	2.5	22	21	22.5	25.0
DISSOLVED OXYGEN	6.0	2.6	8.6	10.2	0.0	3.2	10	6.0
COLIFORMS (MF/100ML)	470,000	1,180,000	58,000	102,000	5,000,000	1,100,000	240,000	5,200,000
5-DAY BOD	12	56	4.8	7.0	28	38	21	20
TOTAL SOLIDS	436	532	644	596	524	542	516	382
SUSPENDED SOLIDS	14	34	8	51	37	80	111	38
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	26	20	-	13.5	12.5	26.0	45	23.0
PHOSPHORUS (TOTAL)	19	18	3.6	1.8	19	12.8	20	23
(SOLUBLE)	14	17	2.5	-	13	12.5	16	18
(FREE AMMONIA)	3.1	16	3.3	1.48	9.84	6.56	9.9	8.20
NITROGENS (TOTAL KJELDAHL)	18.0	20	4.1	5.8	18.0	13.0	13	14.5
(NITRITE)	0.06	0.02	0.09	0.04	TR	0.0	0.01	TR
(NITRATE)	0.0	0.0	2.0	1.4	TR	0.0	TR	0.0
PHENOL EQUIVALENTS (PPB)	-	-	-	6	-	-	-	-
CHLORIDES	-	95	-	-	61	54	114	45
IRON	-	1.00	-	-	-	-	-	-
HARDNESS	-	190	-	-	-	-	-	-
ALKALINITY	-	280	-	-	-	-	-	-
PH	-	8.2	-	-	-	-	-	-
COD	-	-	-	28	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TWELVE MILE CREEK

WATER QUALITY MONITORING

STATION: T-0.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT LAKEPORT ROAD

DATE COLLECTED	10.29.84	2.4.85	3.4.85	5.18.85	7.8.85	7.28.85	8.24.85
TEMPERATURE °C	12	.50	1	15	21.0	21.0	25
DISSOLVED OXYGEN	9.8	13.2	12.8	9.6	10.2	8.0	7
COLIFORMS (MF/100ML)	46,000,000	1,830	16,000	920	5,100	12,200	3,800
5-DAY BOD	47	9.3	5.8	2.6	1.4	2.3	3.2
TOTAL SOLIDS	442	268	248	238	258	238	246
SUSPENDED SOLIDS	-	14	10	-	8	15	11
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	32	10.5	-	1.7	3.8	10.0	-
PHOSPHORUS	(TOTAL	.52	.26	0.20	0.16	0.18	0.16
	(SOLUBLE	0.0	-	0.08	0.04	0.10	0.14
NITROGENS	(FREE AMMONIA	0.2	0.3	0.1	0.10	0.13	0.13
	(TOTAL KJELDAHL	1.7	0.8	0.5	0.46	0.40	0.52
	(NITRITE	TR	TR	0.01	0.0	TR	TR
	(NITRATE	TR	0.1	TR	0.0	0.0	0.0
PHENOL EQUIVALENTS (PPB)	0.0	1.5	12	15	-	-	20
CHLORIDES	-	-	-	28	28	28	-
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

TWENTY MILE CREEK

WATER QUALITY MONITORING

STATION: J-2.4

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT 21ST ST. - LOUTH TWP.

DATE COLLECTED	10.29.64	11.26.64	2.4.65	3.4.65	5.18.65	7.8.65	7.28.65	8.24.65	
TEMPERATURE °C	12	7	0.5	0.5	14.5	23	21.5	22.5	
DISSOLVED OXYGEN	7.4	9.7	12.6	12.2	9	6.2	6.8	11	
COLIFORMS (MF/100ML)	56	900	150	710	14	1,210	700	32	
5-DAY BOD	1.3	3.1	3.4	3.5	0.3	2.4	2.4	1.8	
TOTAL SOLIDS	612	480	464	270	474	-	842	736	
SUSPENDED SOLIDS	-	2	5	13	8	-	63	4	
CONDUCTIVITY (µMHOS/ CM ³)	-	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	6	7	6	3.0	2.6	6.5	13.0	-	
PHOSPHORUS	{ TOTAL	.12	.12	.26	0.28	0.10	0.34	0.20	0.18
	{ SOLUBLE	.06	.04	-	0.25	0.04	0.14	0.10	0.16
NITROGENS	{ FREE AMMONIA	0.0	0.0	0.4	0.5	0.06	0.10	0.03	0.10
	{ TOTAL KJELDAHL	1.2	20.0	1.0	5.0	0.58	0.71	0.71	1.4
	{ NITRITE	TR	0.01	TR	0.01	0.01	TR	TR	TR
	{ NITRATE	0.0	0.0	1.2	.1	-	-	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	-	40	-	186	-	
IRON	-	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	0.2	0.4	9	75	12.4	0.3	NIL	0.2	
YEARLY FLOW (CFS)	AVERAGE		79.1	MAXIMUM		2,610	MINIMUM		NIL

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

T W O M I L E C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: T-0.1

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT LAKESHORE RD.

DATE COLLECTED	10.29.64	2.4.65	3.4.65	5.18.65	7.8.65	7.28.65	8.25.65	
TEMPERATURE °C	12	.5	.5	24	17.5	19	18	
DISSOLVED OXYGEN	6.8	11.8	11.6	19.2	7.2	6.8	9	
COLIFORMS (MF/100ML)	200	43,000	7,100	26	18,000	2,000	27,000	
5-DAY BOD	3.0	4.4	4.6	4.6	2.0	0.9	1.6	
TOTAL SOLIDS	826	722	266	532	706	487	774	
SUSPENDED SOLIDS	-	10	160	18	133	11	6	
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	
TURBIDITY (UNITS)	5.0	6.5	39	2	180.0	8.0	-	
PHOSPHORUS	(TOTAL	.36	.30	0.76	0.18	0.82	0.36	0.16
	SOLUBLE	.24	-	0.68	0.08	0.28	0.14	0.08
NITROGENS	(FREE AMMONIA	0.0	0.5	0.5	0.01	0.11	0.03	0.02
	TOTAL KJELDAHL	1.5	1.0	5.0	0.84	1.3	0.91	0.20
	NITRITE	TR	TR	0.02	TR	0.5	TR	TR
	NITRATE	0.0	2.5	0.6	-	2.5	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	
CHLORIDES	-	-	-	55	35	76	-	
IRON	-	-	-	-	-	-	-	
HARDNESS	-	-	-	-	-	-	-	
ALKALINITY	-	-	-	-	-	-	-	
PH	-	-	-	-	-	-	-	
DAILY FLOW (CFS)	-	-	-	-	-	-	-	
YEARLY FLOW (CFS)	AVERAGE -			MAXIMUM -		MINIMUM -		

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

USSHER'S CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: U-0.0

LOCATION: AT NIAGARA
PARKWAY

DATE COLLECTED	10.29.64	2.4.65	5.18.65	7.7.65	7.27.65	8.25.65
TEMPERATURE °C	10	.25	21.0	22.0	25.5	23.5
DISSOLVED OXYGEN	10.1	10.0	10.8	12.6	11.2	11.0
COLIFORMS (MF/100ML)	108,000	400	1,310	42	430	2,800
5-DAY BOD	7.2	2.1	3.2	0.8	0.8	1.7
TOTAL SOLIDS	356	260	264	188	202	220
SUSPENDED SOLIDS	-	18	28	-	25	5
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	34	-	5.0	6.0	4.0	-
PHOSPHORUS (TOTAL)	1.85	0.24	0.46	-	0.16	0.20
(SOLUBLE)	.55	-	0.20	-	0.14	0.08
(FREE AMMONIA)	0.5	0.3	0.34	0.06	0.03	0.00
NITROGENS (TOTAL KJELDAHL)	8.3	1.0	1.30	0.40	0.33	0.13
(NITRITE)	0.01	TR	0.01	TR	TR	TR
(NITRATE)	TR	0.7	TR	0.0	0.0	0.00
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	30	27	28	26
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

W A T E R T O N C R E E K

W A T E R Q U A L I T Y M O N I T O R I N G

STATION: W-1.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: WEST OF BALACLAVA

DATE COLLECTED	12.17.64	3.25.65	6.30.65	7.21.65	8.5.65	9.21.65
TEMPERATURE °C	.75	.5	17.1	18.0	18.5	22.0
DISSOLVED OXYGEN	12.7	13.6	9.8	11.2	6.4	8.0
COLIFORMS (MF/100ML)	190	64	224	2,100	104	12,000
5-DAY BOD	<1	2.4	0.6	1.5	0.8	1.0
TOTAL SOLIDS	298	294	422	352	352	318
SUSPENDED SOLIDS	28	8	8	5	4	3
CONDUCTIVITY (MICROS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	-	2.8	3.6	4.0	3.5	4.0
PHOSPHORUS	TOTAL	0.09	0.06	0.12	0.80	0.04
	SOLUBLE	-	-	0.06	0.72	0.01
NITROGENS	FREE AMMONIA	0.1	0.0	0.02	0.02	0.05
	TOTAL KJELDAHL	0.3	0.10	0.40	0.20	0.26
	NITRITE	TR	0.0	TR	0.01	0.01
	NITRATE	1.6	0.70	0.5	0.12	0.60
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	-	8	13	10	10
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	<div> <div>AVERAGE</div> <div>MAXIMUM</div> <div>MINIMUM</div> </div>					

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

WELLAND RIVER

WATER QUALITY MONITORING

STATION: PWE-12.8

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT BRIDGEWATER STREET

DATE COLLECTED	10.29.64	2.4.65	3.4.65	5.18.65	7.8.65	7.27.65	8.25.65
TEMPERATURE °C	12	0.25	0.50	13.5	21.5	24.5	23.5
DISSOLVED OXYGEN	7.8	13.4	13.0	10.6	9.2	10.8	12
COLIFORMS (MF/100ML)	1,370	0	300	1,100	40,000	350	1,100
5-DAY BOD	2.4	4.0	1.3	1.6	3.7	4.2	3.4
TOTAL SOLIDS	310	206	196	246	288	258	270
SUSPENDED SOLIDS	-	7	5	4	4	11	7
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	7.5	2.8	1.7	2.2	-	8.5	-
PHOSPHORUS (TOTAL)	4.6	0.12	0.11	0.64	0.20	1.2	0.84
(SOLUBLE)	4.2	-	0.10	0.52	0.80	1.0	0.72
(FREE AMMONIA)	31	0.1	0.1	3.94	5.12	5.3	0.12
NITROGENS (TOTAL KJELDAHL)	78	0.4	5.0	6.80	11.0	6.0	4.8
(NITRITE)	0.10	TR	0.01	0.02	1.0	0.10	TR
(NITRATE)	3.0	TR	0	-	0.4	0.88	0.40
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	27	35	30	32
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

WELLAND SHIP CANAL

WATER QUALITY MONITORING

STATION: SC-2.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: AT LAKESHORE RD.

DATE COLLECTED	10.28.64	2.4.65	5.18.65	7.8.65	7.28.65	8.24.65	8.25.65
TEMPERATURE °C	12	0.5	11.5	21.5	22.0	22.0	21.5
DISSOLVED OXYGEN	13.0	13.6	11.2	9.8	10.0	7	10
COLIFORMS (MF/100ML)	200	31,000	300	100,000	-	54,000	7,000
5-DAY BOD	-	5.4	0.5	2.8	1.0	4.4	1.2
TOTAL SOLIDS	208	198	-	276	230	262	212
SUSPENDED SOLIDS	-	36	-	45	32	36	25
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	-	23	9	20.0	9.0	-	-
PHOSPHORUS (TOTAL)	-	1.06	0.32	0.26	0.36	0.24	0.24
(SOLUBLE)	-	-	0.16	0.10	0.16	0.08	0.08
(FREE AMMONIA)	0.0	0.4	0.05	0.06	0.02	0.08	0.00
NITROGENS (TOTAL KJELDAHL)	0.5	0.8	0.71	0.26	0.46	0.13	0.16
(NITRITE)	TR	0.07	TR	TR	TR	0.0	TR
(NITRATE)	0.0	0.6	-	0.0	0.0	TR	0.00
PHENOL EQUIVALENTS (PPB)	0.0	20	12	-	-	30	-
CHLORIDES	-	-	28	27	28	-	-
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

ORONO CREEK

WATER QUALITY MONITORING

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

STATION: WLO-5.0

LOCATION: CON. ROAD. S.W.
OF ORONO

DATE COLLECTED	1.21.65	2.19.65	3.25.65	6.18.65	7.6.65	7.27.65	8.17.65
TEMPERATURE °C	-	1	1	15	18.5	15.0	22.0
DISSOLVED OXYGEN	-	13.4	13.6	9.5	9.0	9.8	10
COLIFORMS (MF/100ML)	40	20	38	186	74	136	214
5-DAY BOD	1.3	2.3	2.9	1.5	0.8	0.4	0.7
TOTAL SOLIDS	338	270	274	238	302	278	282
SUSPENDED SOLIDS	3	22	12	9	12	1	1
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-
TURBIDITY (UNITS)	1.3	-	3.3	2.6	2.3	2.9	4.0
PHOSPHORUS (TOTAL)	-	-	-	0.1	0.20	0.12	-
(SOLUBLE)	-	-	-	-	0.12	0.08	-
(FREE AMMONIA)	-	0.1	-	TR	0.08	0.02	0.05
NITROGENS (TOTAL KJELDAHL)	-	0.9	-	0.4	0.46	0.39	0.33
(NITRITE)	-	TR	-	TR	0.01	0.01	0.01
(NITRATE)	-	1.3	-	1.0	1.1	0.80	1.0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-
CHLORIDES	-	-	-	10	11	16	13
IRON	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	-	-	-	-	-	-	-
	AVERAGE	-	MAXIMUM	-	MINIMUM	-	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

WILMOT CREEK

WATER QUALITY MONITORING

STATION: WL-0.5

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: HWY. 401
BRIDGE

DATE COLLECTED	12.3.64	1.21.65	2.19.65	3.25.65	6.18.65	7.6.65	7.27.65	8.17.65
TEMPERATURE °C	.5	-	1	1	18	23	17.5	21.0
DISSOLVED OXYGEN	14.7	-	13.2	13.4	10.1	9.6	11.6	12
COLIFORMS (MF/100ML)	58	3,100	40	42	236	130	408	900
5-DAY BOD	1.5	1.9	2.3	3.0	0.5	1.3	0.7	1.9
TOTAL SOLIDS	282	338	288	286	232	266	274	250
SUSPENDED SOLIDS	-	-	19	29	6	7	114	10
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-	-	-
TURBIDITY (UNITS)	3.6	5	-	4	1.4	2.9	7.0	20
PHOSPHORUS (TOTAL)	0.06	-	-	0.12	0.06	0.08	0.20	-
(SOLUBLE)	0.02	-	-	0.1	-	0.05	0.04	-
(FREE AMMONIA)	0.0	0.1	0.1	0.06	TR	0.10	0.02	0.02
NITROGENS (TOTAL KJELDAHL)	0.1	0.4	0.6	0.30	0.33	0.65	0.98	0.13
(NITRITE)	0.0	TR	TR	0.01	TR	TR	TR	TR
(NITRATE)	1.0	1.3	1.0	0.72	0.5	0.4	0.34	0.28
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-	-	-
CHLORIDES	-	-	-	-	8	8	9	9
IRON	-	-	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-	-	-
PH	-	-	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE -		MAXIMUM -		MINIMUM -			

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.

WILTON CREEK

WATER QUALITY MONITORING

STATION: W-2.0

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL RESULTS

LOCATION: BRIDGE ON ROAD
TO HWY # 33

DATE COLLECTED	11.30.64	6.15.65	7.8.65	7.28.65	8.17.65	9.14.65
TEMPERATURE °C	.5	19.5	21	20.4	22.0	21.0
DISSOLVED OXYGEN	16.5	11.8	11.0	7.4	4.8	11.0
COLIFORMS (MF/100ML)	80	46	200	60	40	2,700
5-DAY BOD	2.8	1.7	1.1	2.3	1.3	0.6
TOTAL SOLIDS	416	316	350	372	314	398
SUSPENDED SOLIDS	-	12	45	40	30	12
CONDUCTIVITY (μMHOS/CM ³)	-	-	-	-	-	-
TURBIDITY (UNITS)	5.5	6.0	10.5	29.0	20	5.0
PHOSPHORUS	(TOTAL	.18	0.18	0.38	0.34	0.28
	(SOLUBLE	0.04	-	0.12	0.12	0.04
NITROGENS	(FREE AMMONIA	0.0	0.11	0.14	0.23	0.13
	(TOTAL KJELDAHL	0.6	0.58	1.0	1.10	1.1
	(NITRITE	0.0	TR	0.01	TR	TR
	(NITRATE	0.0	0.0	TR	0.0	0
PHENOL EQUIVALENTS (PPB)	-	-	-	-	-	-
CHLORIDES	-	48	63	68	10	67
IRON	-	-	-	-	-	-
HARDNESS	-	-	-	-	-	-
ALKALINITY	-	-	-	-	-	-
PH	-	-	-	-	-	-
DAILY FLOW (CFS)	-	-	-	-	-	-
YEARLY FLOW (CFS)	AVERAGE	-	MAXIMUM	-	MINIMUM	-

RESULTS IN PARTS PER MILLION (PPM) EXCEPT WHERE OTHERWISE NOTED.